Canon

PowerShot SX40 HS

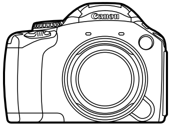
Camera User Guide

- Make sure you read this guide, including the “Safety Precautions” section, before using the camera.
- Reading this guide will help you learn to use the camera properly.
- Store this guide safely so that you can use it in the future.

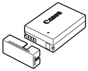
ENGLISH

Checking the Package Contents

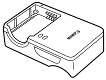
Check if the following items are included in your camera package.
If anything is missing, contact the retailer where you purchased the camera.



Camera



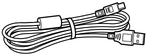
Battery Pack NB-10L (with Terminal Cover)



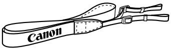
Battery Charger CB-2LC/CB-2LCE



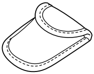
Lens Cap



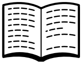
Interface Cable IFC-400PCU



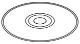
Neck Strap NS-DC11



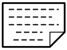
Case for Hot Shoe Cap



Getting Started



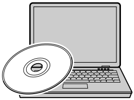
DIGITAL CAMERA Solution Disk



Warranty Card

Using the PDF Manuals

The following PDF manuals are included in the Readme folder of the CD-ROM:
When the software is installed on your computer, the PDF manuals will be copied to the computer and you can refer to them by clicking the shortcuts on the desktop.



- **Camera User Guide (This Guide)**
  Once you have mastered the basics, use the camera's many features to shoot more challenging photos.
- **Software Guide**
  Read when you want to use the included software.

- A memory card is not included (p. 16).
- Adobe Reader is required to view the PDF manuals.

Read This First

- Take some initial test shots and play them back to make sure the images were recorded correctly. Please note that Canon Inc., its subsidiaries and affiliates, and its distributors are not liable for any consequential damages arising from any malfunction of a camera or accessory, including memory cards, that results in the failure of an image to be recorded or to be recorded in a way that is machine readable.
- The images recorded with this camera are intended for personal use. Do not record images that infringe upon copyright laws without the prior permission of the copyright holder. Please be advised that in certain cases the copying of images from performances, exhibitions, or commercial properties by means of a camera or other device may contravene copyright or other legal rights even if the image was shot for personal use.
- This camera's warranty is only effective in the country of sale. If there is a problem with the camera while abroad, please return it to the country of sale before proceeding with a warranty claim to a Canon Customer Support Help Desk. For Canon Customer Support contacts, please see the customer support list supplied with your camera.
- The LCD monitor and viewfinder are produced with extremely high-precision manufacturing techniques. More than 99.99% of the pixels operate to specification, but occasionally non-performing pixels may appear as bright or dark dots. This is not a malfunction and has no effect on the recorded image.
- The LCD monitor may be covered with a thin plastic film for protection against scratches during shipment. If covered, remove the film before using the camera.
- Please take care when operating the camera for an extended period as the camera body may become warm. This is not a malfunction.

What Do You Want to Do?

Shoot

View

Shoot/View Movies

Print

Save

Other

Table of Contents

Safety Precautions

- Before using the product, please ensure that you read the safety precautions described below. Always ensure that the product is used correctly.
- The safety precautions noted on the following pages are intended to prevent injuries to yourself and other persons, or damage to the equipment.
- Be sure to also check the guides included with any separately sold accessories you use.

⚠ Warning	Denotes the possibility of serious injury or death.

- **Do not trigger the flash in close proximity to people's eyes.**

Exposure to the intense light produced by the flash could damage eyesight. In particular, remain at least 1 meter (39 inches) away from infants when using the flash.

- **Store this equipment out of the reach of children and infants.**

Strap: Putting the strap around a child's neck could result in asphyxiation.

- **Use only recommended power sources.**
- **Do not attempt to disassemble, alter or apply heat to the product.**
- **Avoid dropping or subjecting the product to severe impacts.**
- **To avoid the risk of injury, do not touch the interior of the product if it has been dropped or otherwise damaged.**
- **Stop using the product immediately if it emits smoke, a strange smell, or otherwise behaves abnormally.**
- **Do not use organic solvents such as alcohol, benzine, or thinner to clean the product.**
- **Do not let the product come into contact with water (e.g. sea water) or other liquids.**
- **Do not allow liquids or foreign objects to enter the camera.**

This could result in electrical shock or fire.

If liquids or foreign objects come into contact with the camera interior, immediately turn the camera off and remove the battery.

If the battery charger becomes wet, unplug it from the outlet and consult your camera distributor or a Canon Customer Support Help Desk.

- **Use only the recommended battery.**
- **Do not place the battery near or in direct flame.**
- **Unplug the power cord periodically, and using a dry cloth, wipe away any dust and dirt that has collected on the plug, the exterior of the power outlet, and the surrounding area.**
- **Do not handle the power cord with wet hands.**
- **Do not use the equipment in a manner that exceeds the rated capacity of the electrical outlet or wiring accessories. Do not use if the power cord or plug are damaged, or not fully plugged into the outlet.**
- **Do not allow dirt or metal objects (such as pins or keys) to contact the terminals or plug.**

The battery may explode or leak, resulting in electrical shock or fire. This could cause injury and damage the surroundings. In the event that a battery leaks and the battery electrolyte contacts eyes, mouth, skin or clothing, immediately flush with water.

- **Turn the camera off in places where camera use is prohibited.**

The electromagnetic waves emitted by the camera may interfere with the operation of electronic instruments and other devices. Exercise adequate caution when using the camera in places where use of electronic devices is restricted, such as inside airplanes and medical facilities.

- **Do not play the supplied CD-ROM(s) in any CD player that does not support data CD-ROMs.**

It is possible to suffer hearing loss from listening with headphones to the loud sounds of a CD-ROM played on an audio CD player (music player). Additionally, this could damage the speakers.

⚠ Caution

Denotes the possibility of injury.

- **When holding the camera by the strap, be careful not to bang it, subject it to strong impacts or shocks, or let it get caught on other objects.**
- **Be careful not to bump or push strongly on the lens.**

This could lead to injury or damage the camera.

- **When using the flash, be careful not to cover it with your fingers or clothing.**

This could result in burns or damage to the flash.

- **Avoid using, placing or storing the product in the following places:**
  - **Places subject to strong sunlight**
  - **Places subject to temperatures above 40 °C (104 °F)**
  - **Humid or dusty areas**

These could cause leakage, overheating or an explosion of the battery, resulting in electrical shock, fire, burns or other injuries.
High temperatures may cause deformation of the camera or battery charger casing.

- **The slideshow transition effects may cause discomfort when viewed for prolonged periods.**

- **When using the separately sold lens filters, be sure to attach them firmly.**

If the lens becomes loose and falls off, it may crack, and the shards of glass may lead to cuts.

Caution

Denotes the possibility of damage to the equipment.

- **Do not aim the camera at bright light sources (such as the sun on a clear day).**

Doing so may damage the image sensor.

- **When using the camera on a beach or at a windy location, be careful not to allow dust or sand to enter the camera.**

This may cause the product to malfunction.

- **In regular use, small amounts of smoke may be emitted from the flash.**

This is due to the high intensity of the flash burning dust and foreign materials stuck to the front of the unit. Please use a cotton swab to remove dirt, dust or other foreign matter from the flash to prevent heat build-up and damage to the unit.

- **Remove and store the battery when you are not using the camera.**

If the battery is left inside the camera, damage caused by leakage may occur.

- **Before you discard the battery, cover the terminals with tape or other insulators.**

Contacting other metal materials may lead to fire or explosions.

- **Unplug the battery charger from the power outlet after charging is complete, or when you are not using it.**
- **Do not place anything, such as cloth on top of the battery charger while it is charging.**

Leaving the unit plugged in for a long period of time may cause it to overheat and distort, resulting in fire.

- **Do not place the battery near pets.**

Pets biting the battery could cause leakage, overheating or explosion, resulting in fire or damage.

- **When putting the camera in your bag, close the screen to face inward to ensure that hard objects do not come into contact with the screen.**
- **Do not attach any hard objects to the camera.**

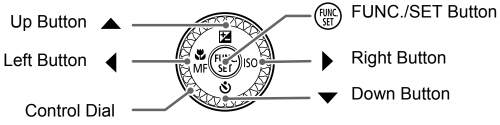
Doing so may cause malfunctions or damage the screen.





Conventions Used in This Guide

- Icons are used in the text to represent the camera buttons and dials.
- Language that displays on the screen appears inside [ ] (square brackets).
- The directional buttons, control dial and FUNC./SET button are represented by the following icons.



- : Things you should be careful about
- : Troubleshooting tips
- : Hints for getting more out of your camera
- : Supplemental information
- (p. xx): Reference pages (“xx” stands for a page number)
- This guide assumes all functions are at their default settings.
- The various types of memory cards that can be used in this camera are collectively referred to as memory cards in this guide.

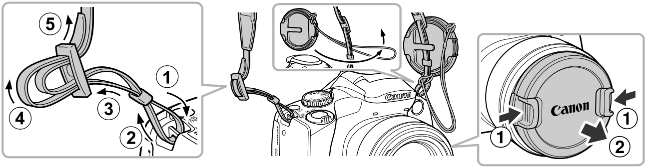
1

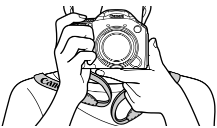
Getting Started

This chapter explains preparations before shooting, how to shoot in AUTO mode, and then how to view and erase the images you take. The latter part of this chapter explains how to shoot and view movies and transfer images to a computer.

Attaching Included Items/Holding the Camera

- Attach the included strap and place it around your neck to avoid dropping the camera during use.
- Attach the included lens cap cord to the strap.
- Be sure to remove the lens cap before turning on the camera. Clip the lens cap to the neck strap when not in use.
- When not in use, store the camera with the lens cap attached.
- Refer to p. 180 for details on the included case for the hot shoe cap.

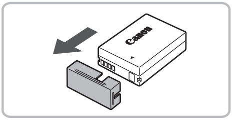




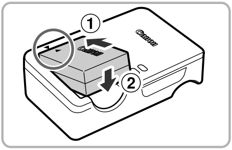
Keep your arms tight against your body while holding the camera firmly by the sides when shooting. Be sure that your fingers do not block the flash while it is raised.

Charging the Battery

Use the included charger to charge the battery. Be sure to charge the battery as it is not charged at the time of purchase.

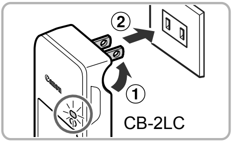


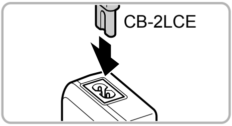
1 Remove the cover.



2 Insert the battery.

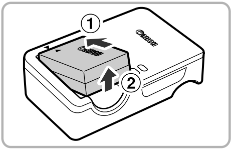
- Align the ▲ marks on the battery and charger, then insert the battery by sliding it in (①) and down (②).





3 Charge the battery.

- **For CB-2LC:** Flip out the plug (①) and plug the charger into a power outlet (②).
- **For CB-2LCE:** Plug the power cord into the charger, then plug the other end into a power outlet.
- ▶ The CHARGE lamp lights and charging starts.
- ▶ The FULL lamp will light when charging has finished. Charging takes approx. 1 hour and 50 minutes.



4 Remove the battery.

- Unplug the battery charger from the power outlet, then remove the battery by sliding it in (①) and up (②).

> ⓘ To protect the battery and prolong its life, do not charge it for longer than 24 hours continuously.

Number of Possible Shots/Shooting and Playback Times

Screen On	Number of Shots*1		Approx. 380
	Movie Shooting Time*2		Approx. 1 hr. 20 min.
		Continuous Shooting*3	Approx. 2 hr. 30 min.
Viewfinder On	Number of Shots		Approx. 400
	Movie Shooting Time*2		Approx. 1 hr. 20 min.
		Continuous Shooting*3	Approx. 2 hr. 30 min.
Playback Time			Approx. 9 hr.

*1 The number of shots that can be taken is based on the Camera & Imaging Products Association (CIPA) measurement standard.

*2 Times are based on default settings, starting and stopping shooting, turning the camera on and off, and operations such as using the zoom.

*3 Times are based on repeatedly shooting until the maximum clip length is reached or recording stops automatically.

- Under some shooting conditions, the number of possible shots and shooting time may be less than mentioned above.

Battery Charge Indicator

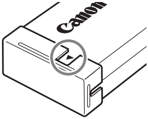
An icon or message will appear on the screen indicating the battery's charge state.

Display	Summary
	Sufficient charge.
	Slightly depleted, but sufficient.
 (Blinking red)	Nearly depleted. Charge the battery.
"Change the battery pack."	Depleted. Charge the battery.

What if...

- What if the battery develops a bulge?
  This is a normal characteristic of the battery and does not indicate a problem. However, if the battery bulges to the point where it will no longer fit into the camera, please contact a Canon Customer Support Help Desk.
- What if the battery is quickly depleted even after charging?
  The battery has reached the end of its life span. Purchase a new battery.

Using the battery and charger effectively



- Charge the battery on the day, or the day before, it will be used.
  Charged batteries continue to discharge naturally even if they are not used.
  Attach the cover to a charged battery so that the ▲ mark is visible.
- How to store the battery for long periods:
  Deplete and remove the battery from the camera. Attach the terminal cover and store the battery. Storing a battery for long periods of time (about a year) without depleting it may shorten its life span or affect its performance.
- The battery charger can also be used when abroad.
  The charger can be used in regions that have 100 – 240 V (50/60 Hz) AC power. If the plug does not fit the outlet, use a commercially available plug adapter. Do not use electrical transformers for foreign travel as they will cause damage.

Compatible Memory Cards (Sold Separately)

The cards below can be used without restrictions on their capacities.

- SD memory cards*
- SDHC memory cards*
- SDXC memory cards*
- Eye-Fi cards

* This memory card complies with SD standards. Some cards may not operate properly depending on the brand of card used.

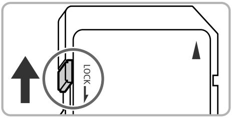
Depending on your computer's OS version, SDXC memory cards may not be recognized even when using a commercially available card reader. Check to make sure that your OS supports SDXC memory cards beforehand.

About Eye-Fi Cards

This product is not guaranteed to support Eye-Fi card functions (including wireless transfer). In case of an issue with an Eye-Fi card, please check with the card manufacturer.
Also note that an approval is required to use Eye-Fi cards in many countries or regions. Without approval, use of the card is not permitted. If it is unclear whether the card has been approved for use in the area, please check with the card manufacturer.

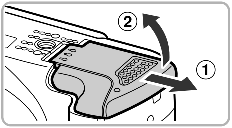
Inserting the Battery and Memory Card

Insert the included battery and a memory card (sold separately).



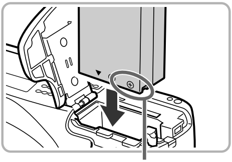
1 Check the card's write-protect tab.

- If the memory card has a write-protect tab, you will not be able to record images if the tab is in the locked position. Slide the tab up until you hear a click.



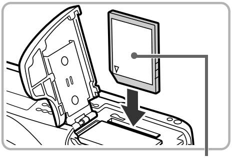
2 Open the cover.

- Slide the cover (①) and open it (②).



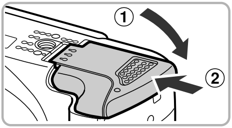
3 Insert the battery.

- Insert the battery as shown until it locks into place with a click.
- Be sure to insert the battery in the correct direction or it will not properly lock into place.



4 Insert the memory card.

- Insert the memory card as shown until it locks into place with a click.
- Be sure the memory card is oriented correctly. Inserting the memory card in the wrong direction could damage the camera.



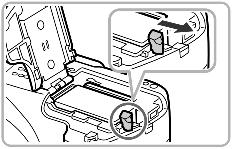
5 Close the cover.

- Close the cover (①), and press downward as you slide it until it clicks into place (②).

What if [Memory card locked] appears on the screen?

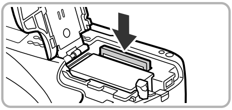
If the write-protect tab is in the locked position, [Memory card locked] will appear on the screen and you will not be able to take or erase images.

Removing the Battery and Memory Card



Remove the battery.

- Open the cover and press the battery lock in the direction of the arrow.
- ▶ The battery will pop up.



Remove the memory card.

- Push the memory card in until you hear a click, then slowly release it.
- ▶ The memory card will pop up.

Number of Shots per Memory Card

Memory Card	4 GB	16 GB
Number of Shots	Approx. 1231	Approx. 5042

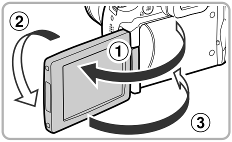
- Values are based on the default settings.
- The number of shots that can be taken will vary depending on camera settings, the subject and the memory card used.

Can you check the number of shots that can be taken?



You can check the number of shots that can be taken when the camera is in a Shooting mode (p. 25).

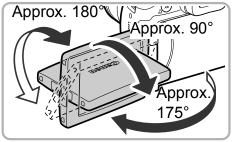
Using the Screen



Open the screen.

- Open the screen (①), and rotate it forward (toward the lens) 180° (②).
- Close the screen (③).

Adjusting the Position of the Screen

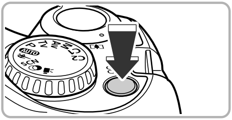


- You can adjust the angle and orientation of the screen for the shooting conditions.
- To protect the screen, always keep it closed, facing the camera body when the camera is not in use.

- When the camera is on, opening the screen will turn the screen on and the viewfinder off. Closing the screen so it faces the camera body will turn the screen off and the viewfinder on.
- In a Shooting mode, if the screen is opened and rotated toward the lens, the image will be flipped from left to right (mirror image). To cancel the reverse display function, press the MENU button to choose [Reverse Disp.] in the 📷 tab, then press the ◀▶ buttons to choose [Off].

Setting the Date and Time

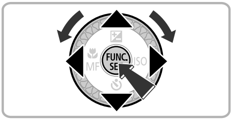
The Date/Time settings screen will appear the first time the camera is turned on. Since the dates and times recorded into your images are based on these settings, be sure to set them.



1 Turn on the camera.

- Press the power button.
- ▶ The Date/Time screen will appear.

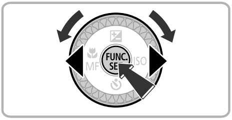




2 Set the date and time.

- Press the ◀▶ buttons to choose an option.
- Press the ▲▼ buttons or turn the ◎ dial to set a value.
- Once all settings are complete, press the (FUNC./SET) button.





3 Set the home time zone.

- Press the ◀▶ buttons or turn the ◎ dial to choose your home time zone.

4 Complete the setting.

- Press the (FUNC./SET) button to complete the setting. After a confirmation screen appears, the shooting screen will reappear.
- Pressing the power button will turn off the camera.

Reappearing Date/Time screen

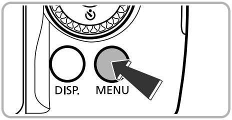
Set the correct date and time. If you have not set the date and time and the home time zone, the Date/Time screen will appear each time you turn on the camera.

Daylight saving time settings

If you choose in Step 2 on p. 20 and press the ▲▼ buttons or turn the dial to choose , you will set the time to daylight saving (1 hour ahead).

Changing the Date and Time

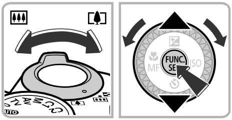
You can change the current date and time settings.



1 Display the menu.

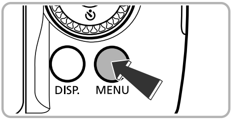
- Press the MENU button.





2 Choose [Date/Time].

- Move the zoom lever to choose the tab.
- Press the ▲▼ buttons or turn the dial to choose [Date/Time], then press the button.



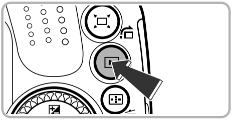
3 Change the date and time.

- Follow Steps 2 – 3 on p. 20 to adjust the settings.
- Press the MENU button to close the menu.

- The camera has a built-in date/time battery (backup battery) that allows the date/time settings to be retained for about 3 weeks after the battery pack has been removed.
- By inserting a charged battery or connecting an AC adapter kit (sold separately, p. 212) the date/time battery can be charged in about 4 hours even if the camera is not turned on.
- If the date/time battery is depleted, the Date/Time screen will appear when you turn the camera on. Follow the steps on p. 20 to set the date and time.

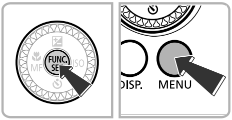
Setting the Display Language

You can change the language that displays on the screen.



1 Enter Playback mode.

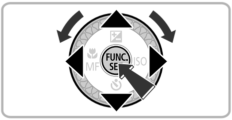
- Press the ▶ button.



2 Display the settings screen.

- Press and hold the FUNC./SET button, then immediately press the MENU button.





3 Set the display language.

- Press the ▲▼◀▶ buttons or turn the ◎ dial to choose a language, then press the FUNC./SET button.
- ▶ Once the display language has been set, the settings screen will close.

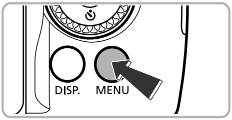
? What if the clock appears when the FUNC./SET button is pressed?

The clock will appear if too much time passes between pressing the FUNC./SET button and the MENU button in Step 2. If the clock appears, press the FUNC./SET button to remove the clock and repeat Step 2.

> You can also change the display language by pressing the MENU button to choose [Language] in the 🔧 tab.

Formatting Memory Cards

Before you use a new memory card or one that has been formatted in other devices, you should format the card with this camera.
Formatting (initializing) a memory card erases all data on the memory card. As you cannot retrieve the erased data, exercise adequate caution before formatting the memory card.
Before formatting an Eye-Fi card (p. 184), be sure to install the software contained on the card to a computer.

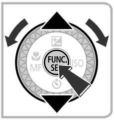


1 Display the menu.

- Press the MENU button.

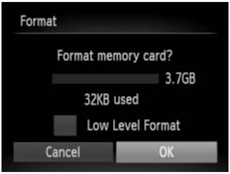






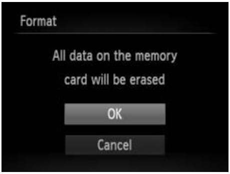
2 Choose [Format].

- Move the zoom lever to choose the ƒT tab.
- Press the ▲▼ buttons or turn the ⊚ dial to choose [Format], then press the FUNC./SET button.



3 Choose [OK].

- Press the ◀▶ buttons or turn the ⊚ dial to choose [OK], then press the FUNC./SET button.



4 Format the memory card.

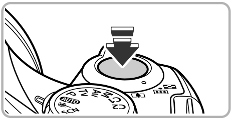
- Press the ▲▼ buttons or turn the ⊚ dial to choose [OK], then press the FUNC./SET button to start formatting.
- When formatting ends, [Memory card formatting complete] appears on the screen. Press the FUNC./SET button.

Formatting or erasing data on a memory card merely changes the file management information on the card and does not ensure its contents are completely erased. Be careful when transferring or disposing of a memory card. When disposing of a memory card, take precautions such as physically destroying the card to prevent personal information leaks.

- The total capacity of the memory card displayed in the formatting screen may be less than indicated on the memory card.
- Perform a low-level format (p. 159) of the memory card when the camera does not operate properly, the recording/reading speed of a memory card has dropped, when continuous shooting speed slows down, or when movie recording stops suddenly.

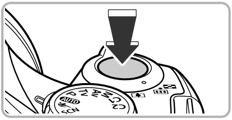
Pressing the Shutter Button

To take images that are in focus, be sure to first press the shutter button lightly (halfway) to focus, then press fully to shoot.



1 Press halfway (Press lightly to focus).

- Press lightly until the camera beeps twice and AF frames appear where the camera focused.



2 Press fully (Press fully to shoot).

- The camera plays the shutter sound and takes the shot.
- Since the shot is being taken while the shutter sound plays, be careful not to move the camera.

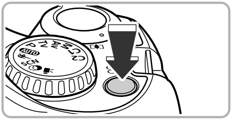
Does the length of the shutter sound change?

- Since the time required to shoot differs depending on the scene you want to take, the length of the shutter sound may change.
- If the camera or subject moves while the shutter sound is playing, the recorded image may be blurry.

If you shoot without pressing the shutter button halfway, the image may not be in focus.

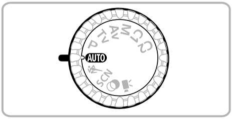
Taking Pictures (Smart Auto)

Since the camera can determine the subject and shooting conditions, you can let it automatically select the best settings for the scene and just shoot. When the flash fires, the white balance of the main subject and background will be automatically adjusted to obtain the best color (Multi-area White Balance).



1 Turn on the camera.

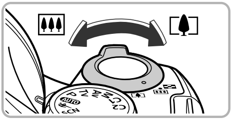
- Press the power button.
- ▶ The start-up screen will appear.

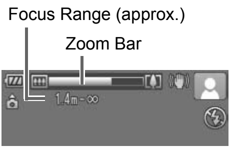




2 Enter AUTO mode.

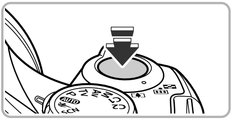
- Set the mode dial to AUTO.
- When you point the camera toward the subject, the camera will make a slight noise as it determines the scene.
- ▶ The icon for the determined scene, and the IS mode icon will appear on the screen (pp. 192, 193).
- ▶ The camera will focus on detected subjects and display frames on them.

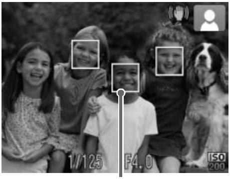




3 Compose the shot.

- Moving the zoom lever toward [telephoto icon] (telephoto) will zoom in on your subject, making it appear larger. Moving the lever toward [wide angle icon] (wide angle) will zoom out from your subject, making it appear smaller. (The zoom bar showing the zoom position appears on the screen.)
- If you move the zoom lever all the way toward [telephoto icon] (telephoto) or [wide angle icon] (wide angle), the camera will zoom in or out quickly. If you move the zoom lever slightly, it will zoom in or out slowly.



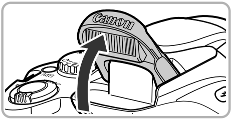


AF Frame

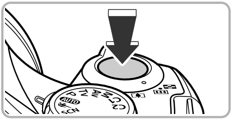
4 Focus.

- Press the shutter button halfway to focus.

▶ When the camera focuses, it will beep twice and AF frames will appear where the camera focused.
Several AF frames will appear when the camera focuses on more than 1 point.



- If [Raise the flash] appears on the screen, raise the flash manually to use it. If you manually lower the flash until it closes, it will not fire.



5 Shoot.

- Press the shutter button fully to shoot.

▶ The camera will play the shutter sound and shoot. The flash will automatically fire in low light conditions if it is raised.

▶ The image will appear on the screen for approximately 2 seconds.

- You can take a second picture even while an image is displayed by pressing the shutter button again.

What if...

- **What if the color and brightness of the images do not turn out as expected?**
The scene icon (p. 192) that appears on the screen may not match the actual scene, and you may not obtain the expected results. If this happens, try shooting in **P** mode (p. 77).
- **What if the screen is off even when the camera is turned on?**
The display is set to the viewfinder. Press the DISP. button several times to restore the display to the screen.

- **What if white and gray frames appear when you point the camera toward a subject?**
  A white frame appears on the face or subject that the camera detected as the main subject, while gray frames appear on other detected faces. The frames will follow the subjects within a certain range.
  If the subject moves, however, the gray frames will disappear, leaving only the white frame.
- **What if a frame does not appear on the subject you want to shoot?**
  The subject may not be detected, and frames may appear on the background. If this happens, try shooting in P mode (p. 77).
- **What if a blue frame appears when you press the shutter button halfway?**
  A blue frame appears when a moving subject is detected; the focus and exposure will continuously adjust (Servo AF).
- **What if a flashing appears?**
  Attach the camera to a tripod so that the camera does not move and blur the image.
- **What if the camera does not play any sounds?**
  You may have been pressing the DISP. button while turning on the camera, which will turn off all sounds. To turn the sounds on, press the MENU button to choose [Mute] in the tab, then press the ◀▶ buttons to choose [Off].
- **What if the image comes out dark even if the flash fired when shooting?**
  The subject is too far away for the flash to reach. The effective flash range is approximately 50 cm – 7.0 m (1.6 – 23 ft.) at maximum wide angle (), and approximately 1.4 – 3.0 m (4.6 – 9.8 ft.) at maximum telephoto ().
- **What if the camera beeps once when the shutter button is pressed halfway?**
  Your subject may be too close. Move about 1.4 m (4.6 ft.) or more away when the camera is at maximum telephoto ().
- **What if the lamp lights when the shutter button is pressed halfway?**
  To reduce red-eye and to assist in focusing, the lamp may light when shooting in low light conditions.
- **What if the icon blinks when you try to shoot?**
  The flash is charging. You can shoot when recharging ends.

What if an icon appears on the screen?

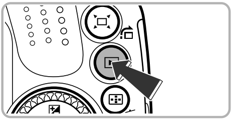
The icon for the determined scene, and the IS mode icon will appear on the screen. For details on the icons that appear, see “Scene Icons” (p. 192) and “IS Mode Icons” (p. 193).

Choosing the subject to focus on (Tracking AF)

After pressing the ▲ button and displaying ⌖, point the camera so that ⌖ is on the subject you want to focus on. Press and hold the shutter button halfway to display a blue frame where focus and exposure will be maintained (Servo AF). Press the shutter button fully to shoot.

Viewing Images

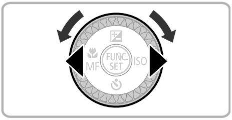
You can view the images you have taken on the screen.



1 Enter Playback mode.

- Press the ▶ button.
- ▶ The last image you took will appear.





2 Choose an image.

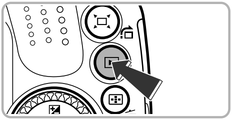
- Pressing the ◀ button or turning the ◎ dial counter-clockwise will cycle through the images from newest to oldest.
- Pressing the ▶ button or turning the ◎ dial clockwise will cycle through the images from oldest to newest.
- The images change more quickly if you keep the ◀▶ buttons pressed, but they will appear coarse.
- The lens will retract after approximately 1 minute elapses.
- Pressing the ▶ button again while the lens is retracted will turn the camera off.

Switching to Shooting mode

Pressing the shutter button halfway while in Playback mode switches the camera to Shooting mode.

Erasing Images

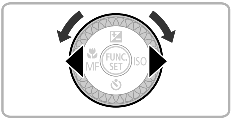
You can choose and erase images one at a time. Please note that erased images cannot be recovered. Exercise adequate caution before erasing an image.



1 Enter Playback mode.

- Press the ▶ button.
- ▷ The last image you took will appear.

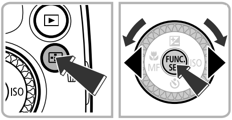




2 Choose an image to erase.

- Press the ◀▶ buttons or turn the ◎ dial to display an image to erase.





3 Erase the image.

- Press the 🗑 button.
- When [Erase?] appears on the screen, press the ◀▶ buttons or turn the ◎ dial to choose [Erase], then press the FUNC./SET button.
- ▷ The displayed image will be erased.
- To exit instead of erasing, press the ◀▶ buttons or turn the ◎ dial to choose [Cancel], then press the FUNC./SET button.

Shooting Movies

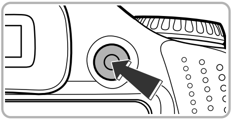
The camera will determine the subject and shooting conditions, and select the best settings for the scene. The audio will record in stereo.

Remaining Time



1 Set the camera to AUTO mode and compose the shot.

- Follow Steps 1 – 3 on p. 25 to compose the shot.
- You can check the remaining shooting time on the screen.



2 Shoot.

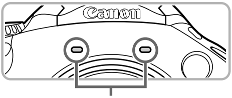
- Press the movie button.
- Black bars appear at the top and bottom of the screen. These areas cannot be recorded.

Elapsed Time

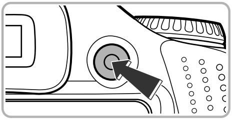


▶ The camera will beep once, recording will start, and [●Rec] and the elapsed time will appear on the screen.

- Once shooting begins, take your finger off the movie button.
- If you change the composition of your shot during shooting, the focus, brightness and tone will automatically adjust.
- Do not touch the microphones while shooting.
- Do not press any buttons other than the movie button while shooting. The sound the buttons make will be recorded in the movie.



Microphones



3 Stop shooting.

- Press the movie button again.
- ▶ The camera will beep twice and stop shooting the movie.
- ▶ Shooting will automatically stop when the memory card fills.

What if white and gray frames appear when shooting?

A white frame appears on the face that the camera detected as the main subject, while gray frames appear on other detected faces. The frames will follow the subjects within a certain range.

Zooming while shooting

Moving the zoom lever while shooting will zoom in on or out from the subject. However, operation sounds will be recorded.

- When the mode dial is set to AUTO, the icon for the determined scene will appear (p. 192). "When Moving" icons will not appear, however. Under certain conditions, the icon that appears may not match the actual scene.
- If you change the composition while shooting and the white balance is not optimal, press the movie button to stop recording, then start recording again (only when the image quality is set to 1920 (p. 113)).
- Movies can be shot by pressing the movie button even when the mode dial is in positions other than AUTO (p. 107).
- When the mode dial is set to movie mode, you can adjust each setting for shooting movies (p. 107).

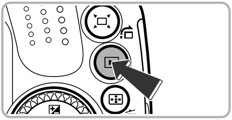
Shooting Time

Memory Card	4 GB	16 GB
Shooting Time	Approx. 14 min. 34 sec.	Approx. 59 min. 40 sec.

- Shooting times are based on default settings.
- Maximum clip length is approx. 29 min. 59 sec.
- Recording may stop even if the maximum clip length has not been reached on some memory cards. SD Speed Class 6 or higher memory cards are recommended.

Viewing Movies

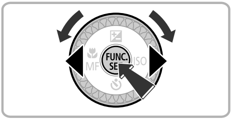
You can view the movies you have shot on the screen.



1 Enter Playback mode.

- Press the ▶ button.
- ▶ The last image you took will appear.
- ▶ SET 🎥 appears on movies.

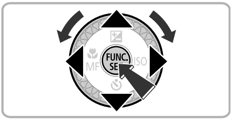




2 Choose a movie.

- Press the ◀▶ buttons or turn the dial to choose a movie, then press the FUNC./SET button.
- ▶ The movie control panel will appear.





3 Play the movie.

- Press the ◀▶ buttons or turn the dial to choose ▶, then press the FUNC./SET button.
- ▶ The movie will play.
- Press the ▲▼ buttons to adjust the volume.
- If you press the FUNC./SET button, you can pause or resume playback.
- ▶ After the movie finishes, SET 🎥 appears.

How can I play back movies on a computer?

Install the included software (p. 34).

- When watching a movie on a computer, frames may drop, it may not play smoothly, and the audio may stop suddenly depending on the computer's capabilities. Use the supplied software to copy the movie back onto the memory card, then play back the movie with the camera. If you connect the camera to a TV, you can view images on the larger screen.

Transferring Images to a Computer for Viewing

You can use the included software to transfer images you have shot with the camera to a computer for viewing. If you are already using software included with another Canon-brand compact digital camera, install the software from the included CD-ROM, overwriting your current installation.

System Requirements

Windows

OS	Windows 7 (Including Service Pack 1) Windows Vista SP2 Windows XP SP3
Computer Model	The above OS should be pre-installed on computers with built-in USB ports.
CPU	Pentium 1.3 GHz or higher (still images), Core 2 Duo 2.6 GHz or higher (movies)
RAM	Windows 7 (64 bit): 2 GB or more Windows 7 (32bit), Windows Vista (64bit, 32bit): 1GB or more (still images), 2 GB or more (movies) Windows XP: 512 MB or more (still images), 2 GB or more (movies)
Interface	USB
Free Hard Disk Space	420 MB or more*
Display	1024 x 768 pixels or higher

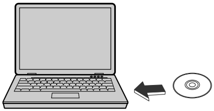
* For Windows XP, Microsoft .NET Framework 3.0 or later (max. 500 MB) must be installed. Installation may take some time depending on your computer's capabilities.

Macintosh

OS	Mac OS X v10.5 - v10.6
Computer Model	The above OS should be pre-installed on computers with built-in USB ports.
CPU	Intel Processor (still images) Core 2 Duo 2.6 GHz or higher (movies)
RAM	Mac OS X v10.6: 1 GB or more (still images), 2 GB or more (movies) Mac OS X v10.5: 512 MB or more (still images), 2 GB or more (movies)
Interface	USB
Free Hard Disk Space	480 MB or more
Display	1024 x 768 pixels or higher

Installing the Software

Windows Vista and Mac OS X (v10.5) are used for these explanations.



1 Place the CD-ROM in the computer's CD-ROM drive.

- Place the supplied CD-ROM (DIGITAL CAMERA Solution Disk) (p. 2) into the computer's CD-ROM drive.
- When the CD-ROM is placed in a Macintosh, a CD-ROM icon will appear on the desktop. Double-click the icon to open the CD-ROM, then double click when it appears.



2 Install the software.

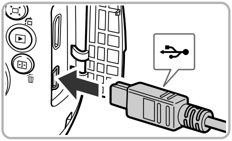
- For Windows, click [Easy Installation], and for Macintosh click [Install], then follow the on-screen instructions to proceed with the installation.
- If the [User Account Control] window appears in Windows, follow the on-screen instructions to proceed.

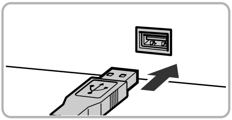


3 Complete the installation.

- For Windows, click [Restart] or [Finish], then remove the CD-ROM when your desktop screen appears.
- For Macintosh, click [Finish] in the screen that appears when the installation is complete, then remove the CD-ROM when your desktop screen appears.

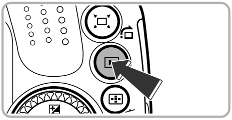
Transferring and Viewing Images





1 Connect the camera to the computer.

- Turn off the camera.
- Open the cover and insert the included interface cable's smaller plug (p. 2) firmly into the camera terminal in the direction shown.
- Insert the interface cable's larger plug into the computer's USB port. For details on the computer's USB port, refer to the user guide provided with the computer.

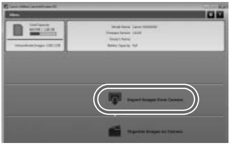




2 Turn on the camera to open CameraWindow.

- Press the ▶ button to turn on the camera.
- For Windows, click [Downloads Images From Canon Camera using Canon CameraWindow] when it appears on the screen. CameraWindow will appear when a connection is established between the camera and computer.
- For Macintosh, CameraWindow will appear when a connection is established between the camera and computer.

CameraWindow



3 Transfer Images.

- Click [Import Images from Camera], and then click [Import Untransferred Images].
- ▶ Images will transfer to the computer. Images will be sorted by date and saved in separate folders in the Pictures folder.
- When image transfer is complete, close CameraWindow and press the ▶ button to turn the camera off, then unplug the cable.
- For details on how to view images using a computer, refer to the *Software Guide*.

- If CameraWindow does not appear even after following Step 2 for Windows, click the [Start] menu and choose [All Programs], followed by [Canon Utilities], [CameraWindow] and [CameraWindow].
- If CameraWindow does not appear even after following Step 2 for Macintosh, click the CameraWindow icon on the Dock (the bar which appears at the bottom of the desktop).
- For Windows 7, use the following steps to display CameraWindow.
  1. Click on the task bar.
  2. In the screen that appears, click the link to modify the program.
  3. Choose [Downloads Images From Canon Camera using Canon CameraWindow] and click [OK].
  4. Double click .
- You can transfer images even without using the image transfer function in the included software by simply connecting your camera to a computer. There are, however, the following limitations.
  - It may take a few minutes from when you connect the camera to the computer until you can transfer images.
  - Images shot in the vertical orientation may be transferred in the horizontal orientation.
  - Protection settings for images may be lost when transferred to a computer.
  - There may be problems transferring images or image information correctly depending on the version of the operating system in use, the file size, or the software in use.
  - Some functions in the included software may not be available, such as editing movies, and transferring images to the camera.

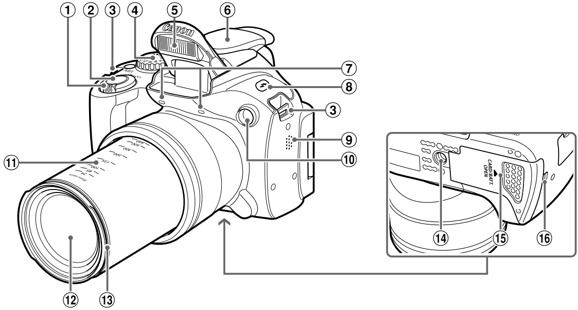
2

Learning More

This chapter explains the parts of the camera and what appears on the screen, as well as the basic operating instructions.



Components Guide



① Zoom Lever
Shooting: [♦] (Telephoto) / [♦♦♦] (Wide Angle) (pp. 25, 50)
Playback: Q (Magnify) / ▦ (Index) (pp. 120, 125)
② Shutter Button (p. 24)
③ Strap Mount (p. 13)
④ Mode Dial
⑤ Flash (pp. 26, 79)
⑥ Hot Shoe Cap (p. 180)
⑦ Microphones (p. 30)
⑧ ⚡ (Flash) Button (pp. 79, 98)
⑨ Speaker
⑩ Lamp (pp. 53, 71, 72, 73, 165, 166)
⑪ Focal Length (approx.)
⑫ Lens
⑬ Lens Hood/Filter Adapter Mount (p. 179)
⑭ Tripod Socket
⑮ Memory Card / Battery Cover (p. 17)
⑯ DC Coupler Cable Port (p. 178)

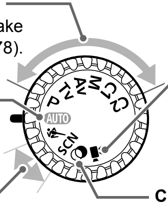
Mode Dial

Use the mode dial to change the Shooting mode.

P, Tv, Av, M, C1, C2 Mode
Choose settings yourself to take various types of pictures (p. 78).

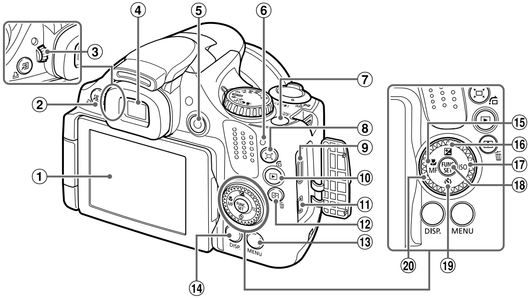
Auto Mode
You can leave it to the camera to select settings for fully automatic shooting (pp. 25, 30).

Scene Mode
You can shoot with the optimum settings for the scene (p. 60).



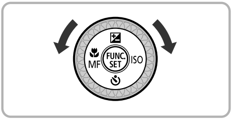
Movie Mode
For shooting movies (p. 108).
Even if the mode dial is set to a position other than Movie mode, movies can be shot by pressing the movie button (p. 109).

Creative Filters Mode
You can add various effects to images when shooting (p. 64).



① Screen (LCD Monitor) (pp. 19, 40, 191, 194)
② (Short Cut) (p. 170) / (Direct Print) Button (p. 146)
③ Diopter Adjustment Dial (p. 41)
④ Viewfinder (p. 40)
⑤ Movie Button (pp. 30, 107)
⑥ Indicator (p. 46)
⑦ Power Button (p. 20)
⑧ (Zoom Framing Assist) (p. 51) / (Jump) Button (p. 121)
⑨ HDMI™ Terminal (p. 175)
⑩ (Playback) Button (pp. 28, 119)
⑪ A/V OUT (Audio/Video Output) / DIGITAL Terminal (pp. 35, 174, 146)
⑫ (AF Frame Selector) (p. 88) / (Single Image Erase) Button (p. 29)
⑬ MENU Button (p. 43)
⑭ DISP. (Display) Button (pp. 27, 40)
⑮ (Macro) (p. 84) / MF (Manual Focus) (p. 93) / ◀ Button
⑯ (Exposure Compensation) (p. 78) / ▲ Button
⑰ ISO (p. 81) / ▶ Button
⑱ FUNC./SET Button (p. 42)
⑲ (Self-Timer) (pp. 53, 54) / ▼ Button
⑳ Control Dial

Control Dial



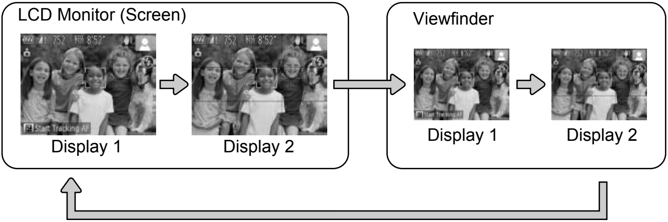
- Turning the control dial allows you to perform operations such as choosing items or switching images. Except for a few operations, the same operations are possible with the ▲▼◀▶ buttons.

Screen Display

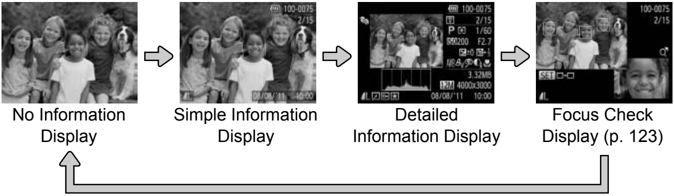
Switching the Display

You can change the screen display using the DISP. button. Refer to p. 191 for details on information that appears on the screen.
Opening the screen with the camera on will turn the screen on, and turn the viewfinder off. Closing the screen so that it faces inward will turn the screen off, and turn the viewfinder on (p. 19).

Shooting



Playback



You can also switch the display by pressing the DISP. button while the image displays right after shooting. However, Simple Information Display is not available. You can change the display that appears first by pressing the MENU button, then choosing [Review info] in the 📷 tab (p. 167).

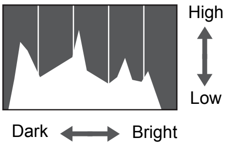
Screen Display in Low Light Conditions

The display automatically brightens when shooting in low light conditions, allowing you to check the composition (Night Display function). However, the brightness of the image on the screen, and the brightness of the actual image recorded may be different. Screen noise may appear and the movement of the subject may appear somewhat rough on the screen. This has no effect on the recorded image.

Overexposure Warning during Playback

In Detailed Information Display (p. 40), overexposed areas of the image flash on the screen.

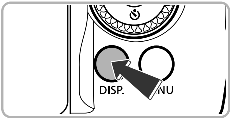
Histogram during Playback



- The graph that appears in Detailed Information Display (p. 194) is called the histogram. The histogram shows the distribution of brightness in an image horizontally, and the amount of brightness vertically, and in this way you can judge the exposure.
- The histogram can also be displayed while shooting (pp. 167, 191).

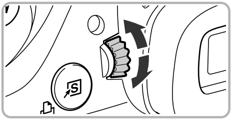
Adjusting the Viewfinder

You can adjust the viewfinder so that the display is clearly visible (Dioptric adjustment).



1 Switch to the viewfinder display.

- Press the DISP. button several times until the viewfinder turns on (p. 40).

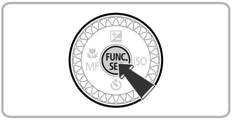


2 Adjust the diopter.

- Adjust the dial while looking through the viewfinder.
- Adjustments of -4.0 to +1.0 m^{-1} (dpt) can be made.

FUNC. Menu – Basic Operations

Commonly used functions can be set with the FUNC. menu.
The menu items and options differ depending on the Shooting mode (pp. 198 – 199).



1 Display the FUNC. menu.

- Press the (FUNC./SET) button.

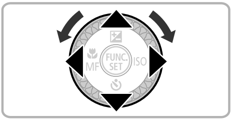


Available Options

Menu Items

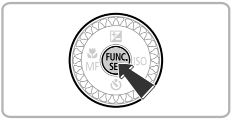
2 Choose a menu item.

- Press the ▲▼ buttons to choose a menu item.
- ▶ The available options for the menu item appear in the lower part of the screen.



3 Choose an option.

- Press the ◀▶ buttons or turn the (dial) dial to choose an option.
- You can also choose settings by pressing the DISP. button on options that display DISP. .
- To return to the menu items, press the DISP. button.

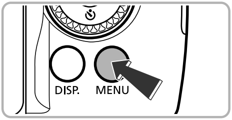


4 Complete the setting.

- Press the (FUNC./SET) button.
- ▶ The shooting screen will reappear and the setting you chose will display on the screen.

MENU – Basic Operations

Various functions can be set from the menus. The menu items are organized under tabs, such as for shooting (📷) and playback (▶). The options differ depending on the Shooting mode and the Playback mode (pp. 200 – 203).



1 Display the menu.

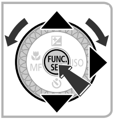
- Press the MENU button.



2 Choose a tab.

- Move the zoom lever or press the ◀▶ buttons to choose a tab.





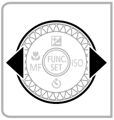
3 Choose an item.

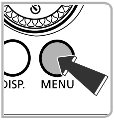
- Press the ▲▼ buttons or turn the ◎ dial to choose an item.
- Some items require you to press the FUNC./SET or ▶ button to display a submenu in which you change the setting.



4 Choose an option.

- Press the ◀▶ buttons to choose an option.





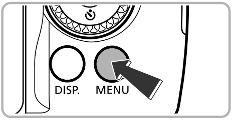
5 Complete the setting.

- Press the MENU button to restore the normal screen.

Changing the Sound Settings

You can silence or adjust the volume of camera sounds.

Muting Sounds



1 Display the menu.

- Press the MENU button.





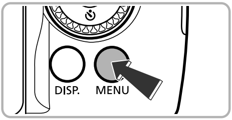


2 Choose [Mute].

- Move the zoom lever to choose the ƒ† tab.
- Press the ▲▼ buttons or turn the ◎ dial to choose [Mute], then press the ◀▶ buttons to choose [On].
- Press the MENU button to restore the normal screen.

- You can also mute camera sounds by holding down the DISP. button and turning the camera on.
- If you mute camera sounds, the sound will also be muted when playing back movies (p. 32). If you press the ▲ button while playing back a movie, the sound will play back, and you can adjust the volume with the ▲▼ buttons.

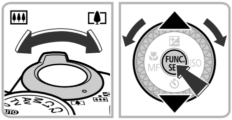
Adjusting the Volume



1 Display the menu.

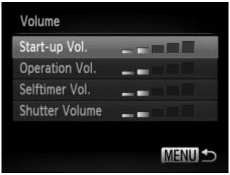
- Press the MENU button.





2 Choose [Volume].

- Move the zoom lever to choose the 🔧 tab.
- Press the ▲▼ buttons or turn the ◎ dial to choose [Volume], then press the (FUNC. SET) button.



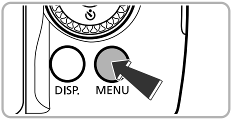
3 Adjust the volume.

- Press the ▲▼ buttons or turn the ◎ dial to choose an item, then press the ◀▶ buttons to adjust the volume.
- Press the MENU button twice to restore the normal screen.

Adjusting the Screen Brightness

The screen brightness can be adjusted in 2 ways.
You can set the brightness of the screen and the viewfinder separately (Press the DISP. button to switch to the desired display before making settings).

Using the Menu



1 Display the menu.

- Press the MENU button.



2 Choose [LCD Brightness].

- Move the zoom lever to choose the 🔧 tab.
- Press the ▲▼ buttons or turn the ◎ dial to choose [LCD Brightness].

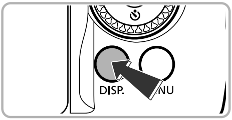




3 Adjust the brightness.

- Press the ◀▶ buttons to adjust the brightness.
- Press the MENU button twice to restore the normal screen.

Using the DISP. Button



- Press and hold the DISP. button for more than 1 second.
- ▶ The screen increases to maximum brightness (The settings made in [LCD Brightness] in the 🔧 tab will be disabled).
- Press and hold the DISP. button again for more than 1 second to return the screen to the original brightness.

> - The next time you turn on the camera, the screen will be at the brightness setting chosen in the 🔧 tab.
> - When you have [LCD Brightness] set to its highest setting in the 🔧 tab, you cannot adjust the brightness with the DISP. button.

Indicator

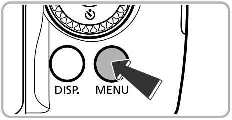
The indicator on the back of the camera (p. 39) will light or blink depending on the camera's status.

Color	Status	Operation Status
Green	Lights	Camera on
	Blinks	During camera start-up, recording/reading/transmitting image data

> When the indicator blinks green, do not turn the camera off, open the memory card slot/battery cover, shake or jolt the camera. These actions may corrupt the image data or cause the camera or memory card to malfunction.

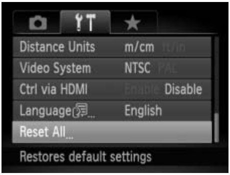
Returning the Camera to Default Settings

When you have mistakenly changed a setting, you can reset the camera to the default settings.

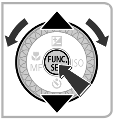


1 Display the menu.

- Press the MENU button.







2 Choose [Reset All].

- Move the zoom lever to choose the 🔧 tab.
- Press the ▲▼ buttons or turn the dial to choose [Reset All], then press the FUNC./SET button.



3 Reset the settings.

- Press the ◀▶ buttons or turn the dial to choose [OK], then press the FUNC./SET button.
- ▶ The camera will reset to the default settings.

? Are there functions that cannot be reset?

- The [Date/Time] (p. 21), [Language] (p. 22), the image registered in [Start-up Image] (p. 160), [Time Zone] (p. 163) and [Video System] (p. 174) in the 🔧 tab.
- The Shooting mode chosen in SCN (p. 61) or (p. 64).
- Colors that were chosen in Color Accent (p. 67) or Color Swap (p. 68).
- The recorded custom white balance data (p. 80).
- The Movie mode (p. 108).

Power Saving Function (Auto Power Down)

To save battery power, the screen turns off, and the camera turns off automatically when it is not operated for a certain time.

Power Saving during Shooting

The screen will turn off approximately 1 minute after you stop operating the camera. After about 2 more minutes, the lens will retract and the camera will turn off. When the screen has turned off but the lens has not yet retracted, pressing the shutter button halfway (p. 24) turns on the screen and shooting can continue.

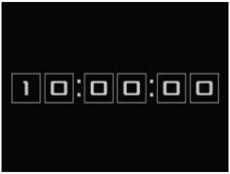
Power Saving during Playback

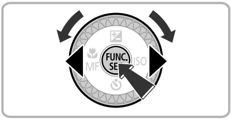
The camera will turn off approximately 5 minutes after you stop operating the camera.

- You can turn off the power saving function (p. 162).
- You can adjust the time before the screen turns off (p. 163).

Clock Function

You can check the current time.





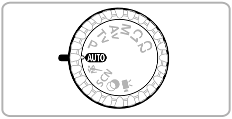
- Press and hold the FUNC./SET button.
- ▶ The current time appears.
- If you hold the camera vertically while using the clock function, it will switch to vertical display. Press the ◀▶ buttons or turn the dial to change the display color.
- Press the FUNC./SET button again to cancel the clock display.

When the camera is off, press and hold the FUNC./SET button, then press the power button to display the clock.

3

Shooting with Commonly Used Functions

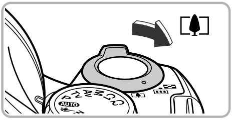
This chapter explains how to use common functions, such as the self-timer.



- This chapter assumes that the camera is set to AUTO mode. When shooting in another mode, check which functions are available in that mode (pp. 196 – 203).

Zooming In More Closely on Subjects (Digital Zoom)

You can use the digital zoom to zoom up to approximately 140x maximum, and capture subjects that are too far away for the optical zoom to enlarge.



1 Move the zoom lever toward [♠].

- Hold the lever until zooming stops.
- ▶ Zooming stops at the largest possible zoom factor without image deterioration. The zoom factor will appear on the screen when you release the zoom lever.

Zoom Factor



2 Move the zoom lever toward [♠] again.

- ▶ The digital zoom will zoom in even further on the subject.

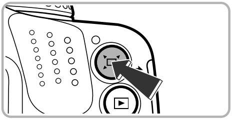
Turning off the digital zoom

To turn off the digital zoom, press the MENU button to choose [Digital Zoom] in the 📷 tab, then choose [Off].

- The focal lengths when using the optical zoom and digital zoom together are as follows (all focal lengths are 35mm film equivalent):
  24 – 3360 mm (24 – 840 mm when using the optical zoom alone)
- Depending on the recording pixel setting (p. 56) and zoom factor, the images may appear coarse (the zoom factor will appear in blue).

Reacquiring Zoomed In Subjects (Zoom Framing Assist)

If you lose track of your subject while zoomed in, temporarily zooming out will make it easier to find.





1 Look for the subject.

- Press and hold the □ button.

▶ The camera will zoom out, and a white frame will appear on the area displayed before pressing the □ button.



2 Reacquire the subject.

- Place the subject inside the white frame and release the □ button.

▶ The camera will return to the original zoom position.

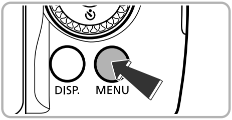
Changing the displayed area when pressing the □ button

Press the MENU button to choose [□ Display Area] in the tab, then choose from 3 levels.

- While the camera is zoomed out, some shooting information will not appear on the screen.
- If you press the shutter button fully while in the screen in Step 1, you can shoot at that zoom factor.
- While shooting a movie, the white frame will not appear even if you press the □ button. The sound of the camera zooming out and any operation sounds will be recorded.
- Zoom Framing Assist is not available after fully pressing the shutter button when using the self-timer (p. 53), or . In addition, automatic shooting in mode is not available while pressing the □ button.

Inserting the Date and Time

You can insert the shooting date and time in the lower right corner of an image. Once inserted, however, they cannot be deleted. Be sure to check beforehand that the date and time are correctly set (p. 20).



1 Display the menu.

- Press the MENU button.







2 Choose [Date Stamp].

- Move the zoom lever to choose the 📷 tab.
- Press the ▲▼ buttons or turn the ◎ dial to choose [Date Stamp].

3 Choose the setting.

- Press the ◀▶ buttons to choose [Date] or [Date & Time].
- Press the MENU button to complete the setting and restore the shooting screen.
- ▶ Once set, [DATE] will appear on the screen.



4 Shoot.

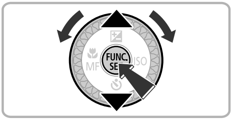
- ▶ The shooting date or time will be recorded in the image's lower right corner.
- To restore the original setting, choose [Off] in Step 3.

You can insert and print the shooting date in images which do not have an embedded date and time as follows. However, if you do this for images with an embedded date and time, the date and time may be printed twice.

- **Use the DPOF print settings (p. 152) to print.**
- **Use the included software to print.**
  Refer to the *Software Guide* for details.
- **Print using printer functions (p. 146).**

Using the Self-Timer

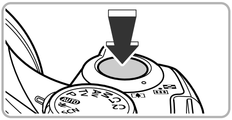
The self-timer can be used to shoot a group photo that includes the photographer. The camera will shoot approximately 10 seconds after the shutter button is pressed.

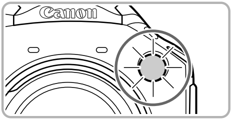




1 Choose ⏲10.

- After pressing the ▼ button, press the ▲▼ buttons or turn the dial to choose ⏲10, then press the FUNC. SET button.
- ▶ Once set, ⏲10 will appear on the screen.





2 Shoot.

- Press the shutter button halfway to focus on the subject, then press it fully.
- ▶ When the self-timer starts, the lamp blinks and the self-timer sound plays.
- ▶ Two seconds before the shutter releases, the lamp and sound speed up (the lamp remains lit when the flash will fire).
- To cancel shooting with the self-timer after the countdown has started, press the MENU button.
- To restore the original setting, choose ⏲OFF in Step 1.

Using the Self-Timer to Prevent Camera Shake

The camera will shoot approximately 2 seconds after the shutter button is pressed, preventing any camera shake that occurs when pressing the shutter button.



Choose ⏲2.

- Follow Step 1 on p. 53 to choose ⏲2.
- ▶ Once set, ⏲2 will appear on the screen.
- Follow Step 2 on p. 53 to shoot.

Customizing the Self-Timer

You can set the delay (0 – 30 seconds) and the number of shots (1 – 10 shots).



1 Choose ⏲C.

- Follow Step 1 on p. 53 to choose ⏲C, then press the MENU button immediately.



2 Choose the settings.

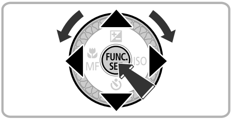
- Press the ▲▼ buttons to choose [Delay] or [Shots].
- Press the ◀▶ buttons or turn the dial to choose a value, then press the FUNC/SET button.
- ▶ Once set, ⏲C will appear on the screen.
- Follow Step 2 on p. 53 to shoot.

- When 2 or more shots are set, the exposure and white balance settings are set with the first shot. If the flash fires or you set a high number of shots, the shooting interval may take longer than usual. Shooting will stop automatically if the memory card fills.
- When you set the delay for more than 2 seconds, the lamp and self-timer sound speed up 2 seconds before the shutter releases (the lamp remains lit when the flash will fire).

Changing the Aspect Ratio

You can change the width to height ratio of an image.





1 Choose 4:3.

- After pressing the FUNC./SET button, press the ▲▼ buttons to choose 4:3.

2 Choose an option.

- Press the ◀▶ buttons or turn the dial to choose an option, then press the FUNC./SET button.
- ▶ Once set, the aspect ratio of the screen will change.
- To restore the original setting, choose 4:3 in Step 2.

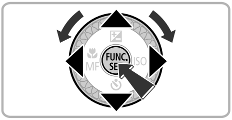
16:9	The same aspect ratio as HD TVs, used for displaying on wide-screen HD TVs.
3:2	The same aspect ratio as 35mm film, used for printing out 5 x 7 in. or postcard sized images.
4:3	The same aspect ratio as the screen of this camera, used for printing images on 3.5 x 5 in. to various A-sized papers.
1:1	A square-shaped aspect ratio.

In 3:2 and 1:1 aspect ratios, [Digital Zoom] (p. 50) is fixed to [Off], and is not available.

Changing the Recording Pixel Setting (Image Size)

You can choose from 4 recording pixel settings.





1 Choose the recording pixel setting.

- After pressing the (FUNC./SET) button, press the ▲▼ buttons to choose L.

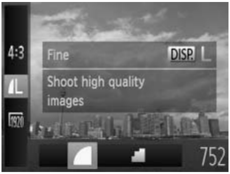
2 Choose an option.

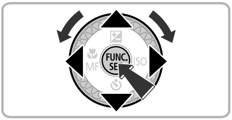
- Press the ◀▶ buttons or turn the dial to choose an option, then press the (FUNC./SET) button.
- ▶ The setting will appear on the screen.
- To restore the original setting, choose L in Steps 1 – 2.

> The digital zoom can be used in the following aspect ratio and recording pixel setting combinations:
> Aspect ratios of 16:9 or 4:3 in a recording pixel setting of L
> An aspect ratio of 4:3 in all other recording pixel settings

Changing the Compression Ratio (Image Quality)

You can choose from the following 2 compression ratios (image quality): (Fine), (Normal).





1 Choose the compression ratio setting.

- After pressing the (FUNC./SET) button, press the ▲▼ buttons to choose L, then press the DISP. button.

2 Choose an option.

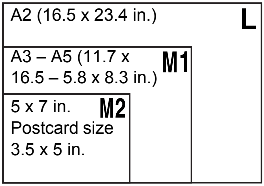
- Press the ◀▶ buttons or turn the dial to choose an option, then press the (FUNC./SET) button.
- ▶ The setting will appear on the screen.
- To restore the original setting, choose (Fine) in Steps 1 – 2.

Approximate Values for Recording Pixels and Compression Ratio (for 4:3 Aspect Ratios)

Recording Pixels	Compression Ratio	Single Image Data Size (Approx. KB)	Number of Shots per Memory Card (Approx. shots)	
			4 GB	16 GB
L (Large)		3084	1231	5042
12M/4000x3000		1474	2514	10295
M1 (Medium 1)		1620	2320	9503
6M/2816x2112		780	4641	19007
M2 (Medium 2)		558	6352	26010
2M/1600x1200		278	12069	49420
S (Small)		150	20116	82367
0.3M/640x480		84	30174	123550

- The values in the table are measured according to Canon standards and may change depending on the subject, memory card and camera settings.
- The values in the table are based on 4:3 aspect ratio. If the aspect ratio is changed (p. 55), more images can be shot because the data size per image will be smaller than with 4:3 images. However, since M2 16:9 images have a setting of 1920 x 1080 pixels, their data size will be larger than 4:3 images.

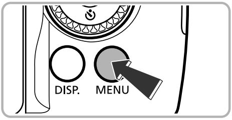
Approximate Values for Paper Size (for 4:3 Aspect Ratios)



- S For sending images as e-mail attachments.

Correcting the Green Tint from Mercury Lamps

When shooting scenes lit by mercury lamps, such as night scenes, the subject and background in the recorded image may have a green tint. You can automatically correct the green tint when shooting (Multi-area White Balance).



1 Display the menu.

- Press the MENU button.



2 Choose [Hg Lamp Corr.].

- Move the zoom lever to choose the 📷 tab.
- Press the ▲▼ buttons or turn the dial to choose [Hg Lamp Corr.].





3 Choose a setting.

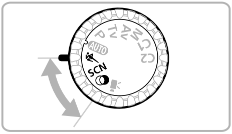
- Press the ◀▶ buttons to choose [On].
- Press the MENU button to complete the setting and restore the shooting screen.
- ▶ Once set, the icon will appear on the screen.
- To turn this function off, follow the Steps above to choose [Off].

- After shooting scenes lit by mercury lamps, you should set [Hg Lamp Corr.] to [Off]. If left set to [On], naturally occurring green colors (not from the effects of a mercury lamp) may be accidentally corrected.
- Movies cannot be corrected.
- Since you may not achieve the expected results depending on the shooting conditions, try taking some test shots first.

4

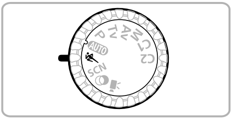
Adding Effects and Shooting in Various Conditions

This chapter explains how to add effects and how to shoot in various conditions.



Take shots of moving subjects (Sports)

Lets you shoot continuous images of a moving subject while focusing automatically.
At maximum wide angle, move approximately 1 m (3.3 ft.) or more away from your subject. At maximum telephoto, move approximately 10 m (33 ft.) or more away from your subject and shoot.



1 Enter mode.

- Set the mode dial to .

2 Focus.

- The focus and brightness will be maintained where the blue AF frame appears while you press the shutter button halfway.



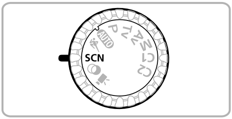
3 Shoot.

- As long as you hold the shutter button down, the camera will shoot successive images.

In mode, images may appear coarse because the ISO speed (p. 81) is increased to match the shooting conditions.

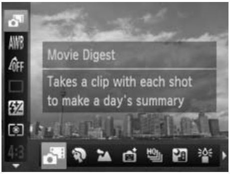
Shooting in Special Scenes

The camera will select the necessary settings for the conditions in which you wish to shoot when you choose the matching mode.



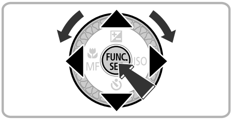
1 Enter SCN mode.

- Set the mode dial to SCN.



2 Choose a Shooting mode.

- After pressing the FUNC./SET button, press the ▲▼ buttons to choose .
- Press the ◀▶ buttons or turn the dial to choose a Shooting mode, then press the FUNC./SET button.



3 Shoot.



Take portraits (Portrait)

- Produces a soft effect when photographing people.



Take landscapes (Landscape)

- Lets you shoot majestic landscapes with a real sense of depth.



Take nightscapes without using a tripod (Handheld NightScene)

- Lets you take beautiful snapshots of city nightscenes by combining several continuous shots to reduce camera shake and noise.
- When using a tripod, you should shoot in AUTO mode (p. 25).



Take shots in low light conditions (Low Light)

- Lets you take shots in dark places with reduced camera shake and subject blur.



At the beach (Beach)

- Lets you take shots of brightly lit people on sandy beaches where the reflected sunlight is strong.



Take shots of foliage (Foliage)

- Lets you shoot trees and leaves, such as new growth, autumn leaves or blossoms, in vivid colors.



Against snow (Snow)

- Lets you take bright, natural-colored shots of people against snowy backgrounds.



Take shots of fireworks (Fireworks)

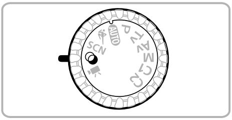
- Lets you take shots of fireworks in vivid colors.

- In mode, hold the camera firmly while shooting as multiple images are captured in succession.
- In mode, attach the camera to a tripod to prevent the camera from moving and blurring the image. Additionally, you should set [IS Mode] to [Off] when shooting with a tripod (p. 168).

- In mode, images may appear coarse because the ISO speed (p. 81) is increased to match the shooting conditions.
- If camera shake is too strong while shooting in mode, the camera may not be able to combine images or you may not obtain the expected result depending on shooting conditions.
- In mode, the recording pixel setting will be fixed at M (1984 x 1488 pixels).

Adding Effects and Shooting (Creative Filters)

You can add various effects to images when shooting.



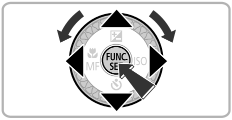
1 Enter mode.

- Set the mode dial to .



2 Choose a Shooting mode.

- After pressing the (FUNC./SET) button, press the ▲▼ buttons to choose .
- Press the ▲▼ buttons or turn the dial to choose a Shooting mode, then press the (FUNC./SET) button.



3 Shoot.

Since you may not achieve the expected results with images shot in , , , and modes, try taking some test shots first.



Shoot images with vivid colors (Super Vivid)

- Lets you take shots with vivid, intense colors.



Take posterized shots (Poster Effect)

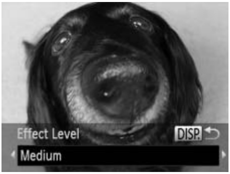
- Lets you take shots that look like an old poster or illustration.

Shooting with the Effects of a Fish-Eye Lens (Fish-eye Effect)

Lets you shoot with the distorting effect of a fish-eye lens.

1 Choose .

- Follow Steps 1 – 2 on p. 64 to choose .



2 Choose an effect level.

- If you press the DISP. button, [Effect Level] will appear on the screen.
- Press the ◀▶ buttons or turn the dial to choose an effect level, then press the DISP. button.
- ▶ You can check the effect on the screen.

3 Shoot.

Taking Shots That Look Like a Miniature Model (Miniature Effect)

Blurs chosen portions in the top and bottom of an image to produce the effect of a miniature model.

1 Choose .

- Follow Steps 1 – 2 on p. 64 to choose .
- ▶ A white frame (the area that will not be blurred) appears on the screen.



2 Choose the area to keep in focus.

- Press the DISP. button.
- Move the zoom lever to change the frame size, and press the ▲▼ buttons to change the frame position, then press the DISP. button.

3 Shoot.

- If you press the (FUNC./SET) button in Step 2, the horizontal/vertical orientation of the frame will switch, and you can press the ◀▶ buttons to change the frame position when it is displayed vertically.
- Holding the camera vertically will change the orientation of the frame.
- Be sure to set ▶▶ (playback speed) before shooting a Miniature Effect movie (p. 110).

Shooting with the Effects of a Toy Camera (Toy Camera Effect)

This effect darkens and blurs the corners of the image, and changes the overall color so that it looks like an image shot with a toy camera.

1 Choose 📷.

- Follow Steps 1 – 2 on p. 64 to choose 📷.



2 Choose a color tone.

- Press the DISP. button.
- ▶ [Color Tone] will appear on the screen.
- Press the ◀▶ buttons or turn the dial to choose a color tone, then press the DISP. button.
- ▶ You can check the color tone on the screen.

3 Shoot.

Standard	Images will look like they were shot with a toy camera.
Warm	Gives images a warmer tone than [Standard].
Cool	Gives images a cooler tone than [Standard].

Shooting in Monochrome

You can shoot images in black and white, sepia or blue and white.



1 Choose ◪.

- Follow Steps 1 – 2 on p. 64 to choose ◪.

2 Choose a color tone.

- Press the DISP. button.
- ▶ [Color Tone] will appear on the screen.
- Press the ◀▶ buttons or turn the ◎ dial to choose a color tone, then press the DISP. button.
- ▶ You can check the color tone on the screen.

3 Shoot.

B/W	Lets you shoot black and white images.
Sepia	Lets you shoot sepia toned images.
Blue	Lets you shoot blue and white images.

Shooting with Color Accent

You can choose to retain a single color and change the rest to black and white in a composition.



1 Choose ⁄A.

- Follow Steps 1 – 2 on p. 64 to choose ⁄A.

2 Press the DISP. button.

- ▶ The unchanged image and the Color Accent image will alternately display.
- ▶ The color for default settings is green.



Recorded color

3 Specify the color.

- Position the center frame so it is filled with the color you want and press the ◀ button.
- ▶ The specified color will be recorded.

4 Specify the range of colors.

- Press the ▲▼ buttons or turn the ◎ dial to change the range of colors to be retained.
- Choose a negative value to limit the range of colors. Choose a positive value to extend the range of colors to similar colors.
- Press the DISP. button to complete the setting and restore the shooting screen.

> - Using the flash may cause unexpected results in this mode.
> - Depending on shooting conditions, the image may become coarse, or the colors may not come out as expected.

Shooting with Color Swap

You can swap one color in an image for another when recording it. You can only swap one color.



1 Choose ✎S.

- Follow Steps 1 – 2 on p. 64 to choose ✎S.



2 Press the DISP. button.

- ▶ The unchanged image and the Color Swap image will alternately display.
- ▶ The default setting is to change green to gray.



3 Specify the color to be swapped.

- Position the center frame so it is filled with the color you want and press the ◀ button.
- ▶ The specified color will be recorded.



4 Specify the target color.

- Position the center frame so it is filled with the color you want and press the ▶ button.
- ▶ The specified color will be recorded.

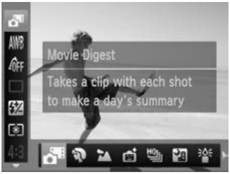
5 Specify the range of colors to be swapped.

- Press the ▲▼ buttons or turn the dial to adjust the range of colors to be swapped.
- Choose a negative value to limit the range of colors. Choose a positive value to extend the range of colors to similar colors.
- Press the DISP. button to complete the setting and restore the shooting screen.

> - Using the flash may cause unexpected results in this mode.
> - Depending on shooting conditions, the image may become coarse, or the colors may not come out as expected.

Making Short Movies Automatically (Movie Digest)

You can make a short movie of a day just by taking still images.
Each time you take a picture, the scene just before taking your shot will be recorded as a movie. All the movies recorded that day will be saved as a single file.



1 Choose .

- Follow Steps 1 – 2 on p. 61 to choose .

2 Shoot.

- Press the shutter button fully to shoot a still image.
- ▶ A movie of approx. 2 – 4 sec. will be recorded just before the image is taken.

What if a movie is not recorded?

If you take a picture just after turning on the camera, selecting mode or otherwise operating the camera, a movie may not be recorded.

Viewing movies made with Movie Digest mode

You can select movies made in mode by date for viewing (p. 121).

- Since you are also shooting movies when you shoot still images, the battery will be depleted more quickly than in AUTO mode.
- The image quality will be fixed at 640 for movies made in mode.
- In the following cases, movies will be saved as separate files even if they were made on the same day with mode.
  - If the clip file size reaches 4 GB or the recording time reaches approximately 1 hour
  - If the movie is protected (p. 128)
  - If the Time Zone setting is changed (p. 163)
  - If a new folder is created (p. 162)
- If you operate the camera while shooting a movie, the sounds made will be recorded in the movie.
- The camera will not play sounds, such as when pressing the shutter button halfway, using the controls or the self-timer (p. 158).

Detecting a Face and Shooting (Smart Shutter)

Detecting a Smile and Shooting

The camera will shoot, even without pressing the shutter button, when it detects a smile.



1 Choose .

- Follow Steps 1 – 2 on p. 61 to choose , then press the DISP. button.
- Press the ◀▶ buttons or turn the dial to choose , then press the DISP. button.
- ▶ The camera will enter shooting stand-by, and [Smile Detection on] will appear on the screen.



2 Point the camera at a person.

- Each time the camera detects a smile it will shoot after the lamp lights.
- Press the ▼ button to pause smile detection. Press the ▼ button again to resume smile detection.

What if a smile is not detected?

Smiles are easier to detect if the subject faces the camera, and opens their mouth enough to show some teeth when smiling.

Changing the number of shots

After choosing in Step 1, press the ▲▼ buttons.

- You should switch to another mode when you finish shooting, or the camera will continue taking shots each time the camera detects a smile.
- You can also shoot by pressing the shutter button.

Using the Wink Self-Timer

Point the camera at a person and press the shutter button fully. The camera will shoot approximately 2 seconds after it detects a wink.

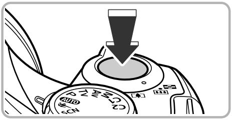


1 Choose .

- Follow Steps 1 – 2 on p. 61 to choose , then press the DISP. button.
- Press the ◀▶ buttons or turn the dial to choose , then press the DISP. button.

2 Compose the shot and press the shutter button halfway.

- Confirm that a green frame appears around the face of the person who will wink.



3 Press the shutter button fully.

- The camera will enter shooting stand-by, and [Wink to take picture] will appear on the screen.
- The lamp will blink and the self-timer sound will play.



4 Face the camera and wink.

- The shutter will release approximately 2 seconds after a wink is detected from the person inside the frame.
- To cancel shooting with the self-timer after the countdown has started, press the MENU button.

What if a wink is not detected?

- Wink a bit slowly.
- A wink may not be detected if eyes are covered by hair or a hat, or when wearing glasses.

Changing the number of shots

After choosing [Wink Self-Timer icon] in Step 1, press the ▲▼ buttons.

- Shutting both eyes will also be detected as a wink.
- If a wink is not detected, the shutter will release approximately 15 seconds later.
- If there are no people in the shot when the shutter button is pressed fully, the camera will shoot after a person enters the shot and winks.

Using the Face Self-Timer

The shutter will release approximately 2 seconds after the camera detects a new face (p. 87). You can use this when the photographer wants to be in the image, such as a group photo.

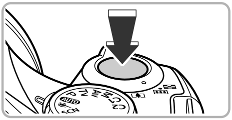


1 Choose [Face Self-Timer icon].

- Follow Steps 1 – 2 on p. 61 to choose [Smart Shutter icon], then press the DISP. button.
- Press the ◀▶ buttons or turn the [control dial icon] dial to choose [Face Self-Timer icon], then press the DISP. button.

2 Compose the shot and press the shutter button halfway.

- Make sure a green frame appears on the face focused on and white frames appear on other faces.



3 Press the shutter button fully.

- ▶ The camera will enter shooting stand-by, and [Look straight at camera to start count down] will appear on the screen.
- ▶ The lamp will blink and the self-timer sound will play.



4 Join the subjects and look at the camera.

- When the camera detects a new face, the lamp and self-timer sound will speed up (the lamp remains lit when the flash will fire), and approximately 2 seconds later the shutter will release.
- To cancel shooting with the timer after countdown has started, press the MENU button.

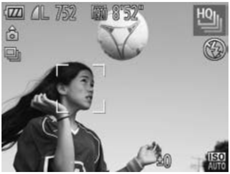
Changing the number of shots

After choosing in Step 1, press the ▲▼ buttons.

Even if your face is not detected after joining the subjects, the shutter will release approximately 15 seconds later.

High-Speed Continuous Shooting (High-speed Burst HQ)

While the shutter button is pressed down, you can shoot up to 8 continuous shots at a maximum speed of approx. 10.3 images per second. HQ stands for "High Quality".



1 Choose .

- Follow Steps 1 – 2 on p. 61 to choose , then press the DISP. button.

2 Shoot.

- As long as you hold the shutter button down, the camera will shoot successive images.
- Release your finger from the shutter button to finish shooting, or shooting will end automatically when the maximum number of images have been shot. [Busy.] will appear on the screen, and the images will display in the order they were taken.

- The focus, brightness and white balance will be set with the first shot.
- Nothing will appear on the screen while shooting.
- After continuous shooting ends, a certain amount of time may be needed before you can take the next shot.
- Depending on the shooting conditions, camera settings and the zoom position, the shooting speed may slow down.

Images Displayed During Playback

Since each set of continuous images will become a single group, only the first image captured in that group will be displayed. To indicate that the image is part of a group, SET ⧉ will appear in the upper left of the screen.

If you erase a grouped image (p. 132), all the images in the group will also be erased. Be sure to exercise adequate caution.

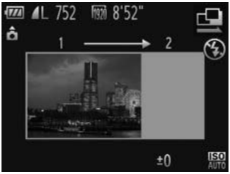
- You can play back images individually (p. 125), and cancel grouping (p. 126).
- Protecting (p. 128) a grouped image, will protect all of the images in the group.
- If you play back grouped images using Filtered Playback (p. 121) or Smart Shuffle (p. 127), grouping is temporarily canceled and images are played back individually.
- Grouped images cannot be tagged as favorites (p. 134), edited (pp. 138 – 143), categorized (p. 135), printed (p. 146) or added to the print list (p. 154). Play back grouped images individually (p. 125), or cancel grouping (p. 126) before trying the above.

Shooting Stitch Assist Images

Large subjects can be split into several shots that can later be merged together using the included software on a computer to create a panoramic image.

1 Choose ⧉ or ⧉.

- Follow Steps 1 – 2 on p. 61 to choose ⧉ or ⧉.



2 Take the first shot.

▶ The exposure and white balance will be set with the first shot.



3 Take subsequent shots.

- Overlap part of the first shot when taking the second shot.
- Minor discrepancies in the overlapping portions will be corrected when the images are merged.
- Up to 26 shots can be recorded with the same procedures.

4 Finish shooting.

- Press the (FUNC/SET) button.



5 Merge the images on a computer.

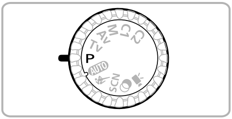
- For details on how to merge the images, refer to the *Software Guide*.

> • This function is not available when a TV is used as a display (p. 175).
> • To use AF lock, register AFL to the S button (p. 170).

5

Choosing Settings Yourself

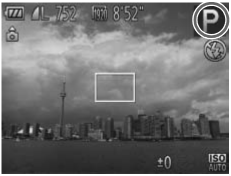
In this chapter you will learn how to use the various functions in **P** mode to progressively advance your shooting skills.



- This chapter assumes that you have set the mode dial to **P** mode.
- **P** stands for Program AE.
- Before attempting to shoot using a function explained in this chapter in modes other than **P** mode, check if the function is available in those modes (pp. 196 – 203).

Shooting in Program AE

You can choose the settings for various functions to suit your preferences. AE stands for Auto Exposure.
The focusing range is approximately 5 cm (2 in.) – infinity at maximum wide angle ([W]), and approximately 1.4 m (4.6 ft.) – infinity at maximum telephoto ([T]).



1 Enter P mode.

- Set the mode dial to P.

2 Adjust the settings according to your purposes (pp. 78 – 100).

3 Shoot.

What if the shutter speed and aperture value appear in orange?

If a correct exposure cannot be obtained when pressing the shutter button halfway, the shutter speed and aperture value appear in orange. Try the following settings to obtain the correct exposure.

- Turn on the flash (p. 79)
- Choose a higher ISO speed (p. 81)

Adjusting the Brightness (Exposure Compensation)

You can adjust the standard exposure set by the camera in 1/3-stop increments in the range of –2 to +2.



1 Enter Exposure Compensation mode.

- Press the ▲ button.

2 Adjust the brightness.

- While watching the screen, turn the dial to adjust the brightness, then press the ▲ button.
- ▶ The exposure compensation amount will appear on the screen.

Turning the Flash On

You can make the flash fire every time you shoot. The effective flash range is approximately 50 cm – 7.0 m (1.6 – 23 ft.) at maximum wide angle ([W]), and approximately 1.4 – 3.0 m (4.6 – 9.8 ft.) at maximum telephoto ([T]).



1 Raise the flash.

2 Choose ⚡.

- After pressing the ⚡ button, press the ◀▶ buttons or turn the ◎ dial to choose ⚡, then press the (FUNC./SET) button.
- ▶ Once set, ⚡ will appear on the screen.

? What if the setting screen does not appear even when you press the ⚡ button?

The flash is lowered. Raise the flash manually.

Correcting the Brightness and Shooting (i-Contrast)

The camera can detect areas in the scene, such as faces or backgrounds, that are too bright or dark and automatically adjust them to the optimum brightness when shooting. Also, when the overall image is lacking in contrast, the camera will automatically correct the image for a sharper impression when shooting.



Choose [i-Contrast].

- Press the MENU button to choose [i-Contrast] in the 📷 tab, then press the ◀▶ buttons to choose [Auto].
- ▶ Once set, Ci will appear on the screen.

- Under some conditions, the image may appear coarse or may not be corrected properly.
- You can correct recorded images (p. 142).

Adjusting the White Balance

The white balance (WB) function sets the optimal white balance for natural looking colors to match the shooting conditions.



1 Choose the white balance function.

- After pressing the FUNC./SET button, press the ▲▼ buttons to choose AWB.

2 Choose an option.

- Press the ◀▶ buttons or turn the dial to choose an option, then press the FUNC./SET button.
- ▶ The setting will appear on the screen.

AWB	Auto	Automatically sets the optimal white balance for the shooting conditions.
	Day Light	For shooting outdoors, in fine weather conditions.
	Cloudy	For shooting in cloudy, shady or twilight conditions.
	Tungsten	For shooting under tungsten and bulb-type (3-wavelength) fluorescent lighting.
	Fluorescent	For shooting under warm-white fluorescent, cool-white fluorescent and warm-white-type (3-wavelength) fluorescent lighting.
	Fluorescent H	For shooting under daylight fluorescent and daylight-type (3-wavelength) fluorescent lighting.
	Flash	For shooting with the flash.
	Custom	For manually setting a custom white balance.

Custom White Balance

You can adjust the white balance to match the light source at the shooting location. Make sure that you set the white balance under the light source of the actual scene you will shoot.



- In Step 2 above, choose the Custom icon.
- Make sure the entire screen is filled with a plain, white colored subject, then press the DISP. button.
- ▶ The tint on the screen will change when white balance data is set.

If you change camera settings after recording white balance data, the tone may not turn out properly.

Changing the ISO Speed



Choose the ISO speed.

- After pressing the ▶ button, press the ◀▶ buttons or turn the dial to choose an option, then press the FUNC./SET button.
- ▶ The option you set will appear on the screen.

ISO AUTO	Automatically adjusts the ISO speed to the Shooting mode and shooting conditions.	
ISO 100 ISO 200	Low	For shooting outdoors, in fine weather conditions.
ISO 400 ISO 800	↕	For shooting in cloudy or twilight conditions.
ISO 1600 ISO 3200	High	For shooting nightscapes or in dark interiors.

Changing the ISO speed

- Lowering the ISO speed results in sharper images, but there may be an increased chance of image blurring in certain shooting conditions.
- Raising the ISO speed results in a faster shutter speed, reducing image blurring and letting the flash reach greater distances to the subject. The images, however, will appear coarse.

When the camera is set to ISO AUTO, you can press the shutter button halfway to display the automatically set ISO speed.

Changing the Tone of an Image (My Colors)

You can change the tone of an image, for example to sepia or black and white, when shooting.



1 Choose My Colors.

- After pressing the FUNC./SET button, press the ▲▼ buttons to choose OFF.

2 Choose an option.

- Press the ◀▶ buttons or turn the dial to choose an option, then press the FUNC./SET button.
- ▶ The setting will appear on the screen.

OFF My Colors Off	—
V Vivid	Emphasizes the contrast and color saturation for a vivid impression.
N Neutral	Tones down the contrast and color saturation for neutral hues.
Se Sepia	Changes the image to sepia tones.
BW B/W	Changes the image to black and white.
P Positive Film	Combines the effects of Vivid Red, Vivid Green and Vivid Blue to produce intense natural appearing colors like those obtained with positive film.
L Lighter Skin Tone	Makes skin tones lighter.
D Darker Skin Tone	Makes skin tones darker.
B Vivid Blue	Emphasizes blue tints. Makes the sky, ocean and other blue subjects more vivid.
G Vivid Green	Emphasizes green tints. Makes mountains, foliage and other green subjects more vivid.
R Vivid Red	Emphasizes red tints. Makes red subjects more vivid.
C Custom Color	You can adjust contrast, sharpness, and color saturation etc. to your preference.

- The white balance cannot be set in Se and BW (p. 80).
- In L and D, colors other than people's skin color may change. You may not obtain the expected results with some skin colors.

Custom Color

The contrast, sharpness, color saturation, red, green, blue, and skin tones in an image can be chosen and set at 5 different levels.



- Follow Step 2 on p. 81 to choose C, then press the DISP. button.
- Press the ▲▼ buttons to choose an option, then press the ◀▶ buttons or turn the dial to choose a value.
- The more to the right, the stronger/darker (skin tone) the effect gets, the more to the left, the weaker/lighter (skin tone) the effect gets.
- Press the DISP. button to complete the setting.

Continuous Shooting

As long as you hold the shutter button down, the camera will shoot continuously.



1 Choose a Drive mode.

- After pressing the FUNC./SET button, press the ▲▼ buttons to choose □.

2 Choose an option.

- Press the ◀▶ buttons or turn the dial to choose an option, then press the FUNC./SET button.
- ▶ The option you set will appear on the screen.

3 Shoot.

- ▶ As long as you hold the shutter button down, the camera will shoot successive images.

Mode	Maximum Speed (Approx. images/sec.)	Description
Continuous	2.4	The camera shoots continuously with the focus and exposure set when the shutter button is pressed halfway.
Continuous Shooting AF	0.8	The camera shoots continuously and focuses. The [AF Frame] is set to [Center].
Continuous Shooting LV*	0.9	The camera shoots continuously with the focus fixed to the position set in manual focus. In mode, the focus is locked on the first shot.

* When in mode (p. 63), AF lock (p. 91) or manual focus modes (p. 93), AF will change to LV.

- Cannot be used with the self-timer (p. 53).
- Depending on the shooting conditions, camera settings and the zoom position, the camera may stop shooting momentarily, or the shooting speed may slow down.
- As the number of images increases, the shooting speed may slow down.
- If the flash fires, the shooting speed may slow down.

Shooting Close-ups (Macro)

If you set the camera to [Macro], it focuses on close subjects only. The focusing range is approximately 0 – 50 cm (0 – 1.6 ft.) from the end of the lens at maximum wide angle ([Wide]).



Choose [Macro].

- After pressing the ◀ button, press the ◀▶ buttons or turn the [dial] dial to choose [Macro], then press the [FUNC/SET] button.
- ▶ Once set, [Macro] will appear on the screen.

- The edges of the image may darken if the flash fires.
- Be careful to avoid damaging the lens.

How can I take better close-ups?

Try attaching the camera to a tripod and shooting in [Self-timer 2 sec.] to prevent the camera from moving and blurring the image (p. 54).

[Macro] will turn gray in the area that displays in the yellow bar underneath the zoom bar, and the camera will not focus.

Using the Digital Tele-Converter

The focal length of the lens can be increased by 1.5x or 2.0x. This enables a faster shutter speed and less chance of camera shake than the zoom (including digital zoom) used by itself at the same zoom factor.



Choose [Digital Zoom].

- Press the MENU button to choose [Digital Zoom] in the camera tab, then press the ◀▶ buttons to choose an option.
- ▶ The view will be enlarged and the zoom factor will appear on the screen.

- The respective focal lengths when using [1.5x] and [2.0x] are 36.0 – 1260 mm and 48.0 – 1680 mm (35mm film equivalent).
- A recording pixel setting (p. 56) of L or M1 will cause images to appear coarse (the zoom factor will appear in blue).
- The digital tele-converter cannot be used together with the digital zoom (p. 50).
- The digital tele-converter can be used in the following aspect ratio and recording pixel setting combinations:
  Aspect ratios of 16:9 or 4:3 in a recording pixel setting of L
  An aspect ratio of 4:3 in all other recording pixel settings
- The shutter speeds may be the same when at maximum telephoto [ ], and when zoomed in on the subject using Step 2 on p. 50.

Changing the AF Frame Mode

You can change the AF (Auto Focus) frame mode to match the scene you want to shoot.



Choose [AF Frame].

- Press the MENU button to choose [AF Frame] in the 📷 tab, then press the ◀▶ buttons to choose an option.

FlexiZone/Center

A single AF frame will be used. This is effective for focusing on a specific point. In [FlexiZone], you can change the position and size of the AF frame (p. 88).

> If the camera cannot focus when you press the shutter button halfway, the AF frame will turn yellow and ❗ will appear.

Changing the Composition with the Focus Lock

While you keep the shutter button pressed halfway, the focus and exposure are locked. You can now recompose and shoot. This is called Focus Lock.



1 Focus.

- Center the subject you want in focus, and press the shutter button halfway.
- Confirm that the AF frame on the subject is green.



2 Recompose.

- Keep the shutter button pressed halfway and move the camera to recompose the scene.

3 Shoot.

- Press the shutter button fully.

Face Detect

- Detects people's faces and sets the focus, exposure (evaluative metering only) and white balance (AWB only).
- When the camera is pointed at subjects, a white frame appears on the face the camera judges to be the main subject, and gray frames (max. 2) will appear on other faces.
- A frame will follow a moving subject within a certain range.
- When the shutter button is pressed halfway, up to 9 green frames will appear on faces that the camera focuses on.

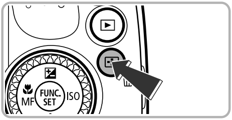
- If a face is not detected, or only gray frames (no white frame) appear, an AF frame will appear in the center of the screen when you press the shutter button halfway.
- If a face is not detected when Servo AF (p. 91) is set to [On], the AF frame will appear in the center of the screen when you press the shutter button halfway.
- Examples of faces that cannot be detected:
  - Subjects that are far away or extremely close
  - Subjects that are dark or light
  - Faces turned to the side or at an angle, or faces with a portion hidden
- The camera may mistakenly identify non-human subjects as a face.
- If the camera cannot focus when you press the shutter button halfway, the AF frame will not appear.

Tracking AF

You can choose the subject you want to focus on and shoot (p. 89).

Changing the AF Frame Position and Size

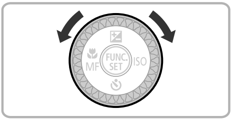
When the AF frame mode is set to [FlexiZone] (p. 86), you can change the position and size of the AF frame.



1 Press the button.

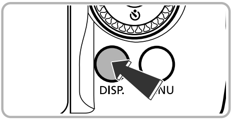
▶ The AF frame will turn orange.





2 Move the AF frame.

- Turn the dial to move the AF frame.
- Press the ▲▼◀▶ buttons to make fine adjustments.
- If you keep the button pressed, the AF frame will return to the original position (center).

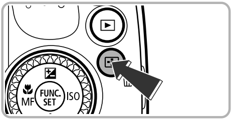


3 Change the AF frame size.

- Press the DISP. button.

▶ The AF frame will become small.

- Press the DISP. button again to restore the AF frame to normal size.



4 Complete the settings.

- Press the button.

- The spot AE point frame can be linked with the AF frame (p. 95).
- The AF frame will be set to [Normal] when using the digital zoom (p. 50) or digital tele-converter (p. 85).

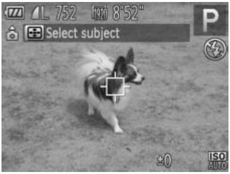
Choosing the Subject to Focus On (Tracking AF)

You can choose the subject you want to focus on and shoot.



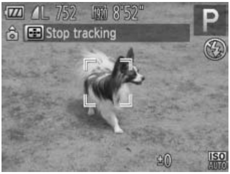
1 Choose [Tracking AF].

- Press the MENU button to choose [AF Frame] in the 📷 tab, then press the ◀▶ buttons to choose [Tracking AF].
- ▶ ⌖ will appear in the center of the screen.



2 Choose the subject to focus on.

- Point the camera so that ⌖ is on the subject you want to focus on and press the ⊞ button.



- ▶ The camera will beep and ⌜ ⌝ will appear when a subject is detected. The camera will continue to track the subject within a certain range even if the subject moves.
- ▶ If the camera does not detect the subject, ⌖ will appear on the screen.
- To cancel tracking, press the ⊞ button again.

3 Shoot.

- Press the shutter button halfway. ⌜ ⌝ will change into a blue □ which will follow the subject while the camera continues to adjust the focus and exposure (Servo AF) (p. 91).
- Press the shutter button fully to shoot.
- ▶ Even after shooting completes, ⌜ ⌝ will appear, and the camera will continue to track the subject.

- The camera will detect a subject even if you press the shutter button halfway without pressing the [icon] button. When shooting completes, [icon] will appear in the center of the screen.
- [Servo AF] (p. 91) is fixed to [On].
- The camera may not be able to track the subject if the subject is too small, moves too quickly or if the contrast between the subject and the background is too low.
- Not available in [icon].

Magnifying the Focal Point

If you press the shutter button halfway, the AF frame will magnify and you can check the focus.



1 Choose [AF-Point Zoom].

- Press the MENU button to choose [AF-Point Zoom] in the [camera] tab, then press the ◀▶ buttons to choose [On].



2 Check the focus.

- Press the shutter button halfway.
- ▶ In [Face Detect] (p. 87), the face detected as the main subject will appear magnified.
- ▶ In [FlexiZone] or [Center] (p. 86), the contents of the AF frame will appear magnified.

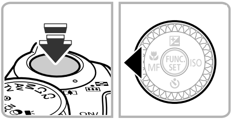
What if the display does not magnify?

The display will not appear magnified in [Face Detect] if a face cannot be detected or is too big in relation to the screen. In [FlexiZone] or [Center], it will not appear magnified if the camera cannot focus.

The magnified display will not appear when using the digital zoom (p. 50), digital tele-converter (p. 85), Tracking AF (p. 89), Servo AF (p. 91) or when using a TV as a display (p. 175).

Shooting with the AF Lock

The focus can be locked. After locking the focus, the focal distance will not change even when you release your finger from the shutter button.



1 Lock the focus.

- Keep the shutter button pressed halfway and press the ◀ button.
- ▶ The focus locks, and MF and the MF indicator appear on the screen.
- After you release your finger from the shutter button, press the ◀ button again, then press the ◀▶ buttons or turn the dial to choose . The focus will unlock.

2 Compose the scene and shoot.

Shooting with Servo AF

While the shutter button is pressed halfway, the focus and exposure will continue to adjust, allowing you to take pictures of moving subjects without missing a shot.



1 Choose [Servo AF].

- Press the MENU button to choose [Servo AF] in the tab, then press the ◀▶ buttons to choose [On].

2 Focus.

- The focus and exposure will be maintained where the blue AF frame appears while you press the shutter button halfway.

- The camera may not be able to focus in some conditions.
- In low light conditions, AF frames may not turn blue even after pressing the shutter button halfway. In this case, you can set the focus and exposure with the AF frame setting.

- If a correct exposure cannot be obtained, the shutter speed and aperture value appear in orange. Release your finger from the shutter button, then press it again halfway.
- You cannot shoot with the AF lock in this mode.
- The [AF-Point Zoom] option in the [camera] tab is not available in Servo AF mode.
- Not available when using the self-timer (p. 53).

Focus Bracketing (Focus-BKT Mode)

The camera automatically takes 3 continuous shots in the following order: one at the position set in manual focus, and one each with focus positions preset farther and nearer. The focus adjustment can be set in 3 levels.



1 Choose [Focus-BKT].

- After pressing the [FUNC./SET] button, press the ▲▼ buttons to choose [OFF], then press the ◀▶ buttons or turn the [dial] dial to choose [Focus-BKT].



2 Set the focus.

- Press the DISP. button.
- Press the ◀▶ buttons or turn the [dial] dial to set the focus.

- Focus Bracketing is only available in [MF] (p. 26).
- Continuous shooting (p. 83) cannot be used in this mode.
- If you follow Step 1 on p. 93 to choose [MF] and immediately press the DISP. button, the focus adjustment screen will appear.
- Even if you set the number of shots in [custom timer] (p. 54), only 3 shots will be taken.

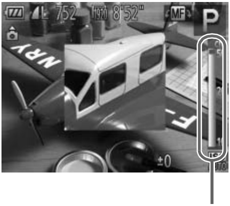
Shooting in Manual Focus Mode

You can use manual focus when auto focus is not possible. If you press the shutter button halfway after roughly focusing manually, you can fine tune the focus.



1 Choose [MF].

- After pressing the ◀ button, press the ◀▶ buttons or turn the [dial] dial to choose [MF], then press the [FUNC./SET] button.
- ▶ [MF] and the MF indicator appear.



MF Indicator

2 Focusing roughly.

- The side bar shows your focal point and a distance display for the MF indicator. While looking at the magnified area, turn the [dial] dial to find an approximate focus.

3 Fine tuning the focus.

- If you press the shutter button halfway, you can fine tune the focus (Safety MF).
- You can also fine tune the focus by pressing the [AF frame] button.

- You cannot change the AF frame mode or size while focusing manually (p. 86). If you want to change the AF frame mode or size, cancel manual focus mode first.
- In order to focus accurately, try attaching the camera to a tripod.
- When using the digital zoom (p. 50), digital tele-converter (p. 85), or when using a TV as a display (p. 175), you will be able to focus but the magnified area will not display.
- If you press the MENU button to display the [camera] tab and set [MF-Point Zoom] to [Off], the magnified display will not be available.
- If you press the MENU button to display the [camera] tab and set [Safety MF] to [Off], you will not be able to fine tune the focus even if you press the shutter button halfway.

Choosing the Person to Focus On (Face Select)

You can choose a specific person's face to focus on and then shoot.



1 Set the AF frame to [Face Detect] (p. 87).

2 Enter Face Select mode.

- Point the camera toward the face of the subject and press the [button icon] button.
- ▶ After [Face Select : On] appears, a face frame [face frame icon] will appear around the face detected as the main subject.
- Even if the subject moves, the face frame [face frame icon] will follow the subject within a certain range.
- If a face is not detected, [face frame icon] will not appear.



3 Choose the face to focus on.

- If you press the [button icon] button, the face frame [face frame icon] will move to another face detected by the camera.
- When the frame has made a full circuit of all detected faces, [Face Select : Off] will appear, and the AF frame mode screen will reappear.



4 Shoot.

- Press the shutter button halfway. When the camera focuses, [face frame icon] will change into [frame icon].
- Press the shutter button fully to shoot.

Changing the Metering Method

You can change the metering method (brightness measuring function) to match the shooting conditions.



1 Choose the metering method.

- After pressing the FUNC. SET button, press the ▲▼ buttons to choose [evaluative icon].

2 Choose an option.

- Press the ◀▶ buttons or turn the dial to choose an option, then press the FUNC. SET button.
- ▶ The setting will appear on the screen.

[evaluative icon]	Evaluative	For standard shooting conditions, including back lit shots. Automatically adjusts the exposure to match the shooting conditions.
[ ]	Center Weighted Avg.	Averages the light metered from the entire frame, but gives greater weight to the center.
[•]	Spot	Only meters within the [ ] (Spot AE Point frame). The Spot AE Point frame can be linked to the AF frame.

Linking the Spot AE Point Frame to the AF Frame



1 Choose [•].

- Follow Step 2 above to choose [•].

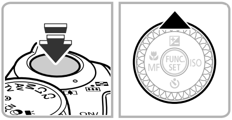
2 Choose [Spot AE Point].

- Press the MENU button to choose [Spot AE Point] in the [camera] tab, then press the ◀▶ buttons to choose [AF Point].
- ▶ The Spot AE Point frame will be linked to the AF frame that was moved.

Cannot be used when [AF Frame] is set to [Face Detect] (p. 87) or [Tracking AF].

Shooting with the AE Lock

You can lock the exposure and shoot, or set the focus and exposure separately to shoot. AE stands for "Auto Exposure".



1 Lock the exposure.

- Point the camera toward the subject and press the ▲ button while pressing the shutter button halfway.
- ▶ When ✱ appears, the exposure will be locked.
- If you release your finger from the shutter button and press the ▲ button again, ✱ will disappear and AE will unlock.

2 Compose the scene and shoot.

- When you shoot one image, ✱ will disappear and AE will unlock.

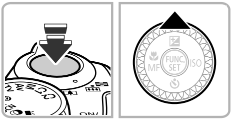
Program Shift

If you lock the exposure and turn the ◎ dial, you can change the shutter speed and aperture value combination.

Shooting with the FE Lock

Just as with the AE lock, you can lock the exposure for shooting with the flash. FE stands for "Flash Exposure".

1 Raise the flash and choose ⚡ (p. 79).



2 Lock the flash exposure.

- Point the camera toward the subject and press the ▲ button while pressing the shutter button halfway.
- ▶ The flash will fire and when ✱ appears, the flash output will be retained.

- If you release your finger from the shutter button and press the ▲ button again, ✱ will disappear and FE will unlock.

3 Compose the scene and shoot.

- When you shoot one image, ✱ will disappear and FE will unlock.

Auto Exposure Bracketing (AEB Mode)

The camera takes 3 continuous shots while automatically adjusting the exposure to standard exposure, underexposure and overexposure, in that order.



1 Choose [AEB].

- After pressing the (FUNC/SET) button, press the ▲▼ buttons to choose [AEB OFF], then press the ◀▶ buttons or turn the (dial) dial to choose [AEB].



2 Set the exposure compensation amount.

- Press the DISP. button.
- Press the ◀▶ buttons or turn the (dial) dial to adjust the setting.
- From the exposure set by the camera, you can adjust the amount of compensation from –2 to +2 stops in 1/3-stop increments. If exposure compensation (p. 78) is already being used, settings are made with the compensated value as the base.

- AEB is only available in (flash off) (p. 26).
- Continuous shooting (p. 83) cannot be used in this mode.
- If you press the DISP. button while in the exposure compensation screen (p. 78), the compensation amount setting screen will appear.
- Even if you set the number of shots in (self-timer) (p. 54), only 3 shots will be taken.

Adjusting the Flash Exposure Compensation

Just as with exposure compensation (p. 78), you can adjust the exposure from –2 to +2 stops in 1/3-stop increments when using the flash.



1 Choose ⚡±.

- After pressing the FUNC./SET button, press the ▲▼ buttons to choose ⚡±.

2 Choose the amount of flash exposure compensation.

- Press the ◀▶ buttons or turn the dial to choose the amount of flash exposure compensation, then press the FUNC./SET button.
- ▶ Once set, ⚡± will appear on the screen.

Safety FE

The camera automatically changes the shutter speed or aperture value when the flash fires to avoid overexposing and blowing out the highlights in the scene. However, if you press the MENU button to display the 📷 tab and set [Safety FE] in [Flash Control] to [Off], the shutter speed and aperture value will not automatically adjust.

- You can also set the flash exposure compensation by pressing the MENU button to choose [Flash Control] (p. 99) in the 📷 tab, then choose [Flash Exp. Comp] and press the ◀▶ buttons to choose a setting.
- If you hold down the ⚡ button for more than 1 second, the setting screen will appear. If you press the ⚡ button then immediately press the MENU button when the flash is raised, the setting screen will appear.

Shooting with Slow Synchro

You can make the main subject, such as people, appear bright by having the camera provide the appropriate illumination with the flash. At the same time, you can use a slow shutter speed to brighten the background that the light from the flash cannot reach.

1 Raise the flash.



2 Choose ⚡★.

- After pressing the ⚡ button, press the ◀▶ buttons or turn the dial to choose ⚡★, then press the FUNC./SET button.
- ▶ Once set, ⚡★ will appear on the screen.

3 Shoot.

- Even if the flash fires, ensure that the main subject does not move until the shutter sound ends.

> Attach the camera to a tripod to prevent the camera from moving and blurring the image. Additionally, you should set [IS Mode] to [Off] when shooting with a tripod (p. 168).

What if the setting screen does not appear even when you press the ⚡ button?

The flash is lowered. Raise the flash manually.

Red-Eye Correction

You can automatically correct red-eye that occurs in images taken with the flash.



1 Choose [Flash Control].

- Press the MENU button to choose [Flash Control] in the 📷 tab, then press the FUNC./SET button.



2 Choose the setting.

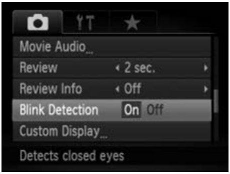
- Press the ▲▼ buttons or turn the dial to choose [Red-Eye Corr.], then press the ◀▶ buttons to choose [On].
- ▶ Once set, ◉ will appear on the screen.

Red-eye correction may be applied to areas other than red eyes. For example, when red make-up has been used around eyes.

- You can also correct recorded images (p. 143).
- If you hold down the button for more than 1 second, the screen in Step 2 will appear.
- If you press the button then immediately press the MENU button when the flash is raised, the screen in Step 2 will appear.

Checking for Shut Eyes

When the camera detects the possibility that people have their eyes shut, appears on the screen.



1 Choose [Blink Detection].

- Press the MENU button to choose [Blink Detection] in the tab, then press the buttons to choose [On].

2 Shoot.

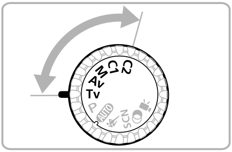
- When a person with shut eyes is detected, a frame and appear on the screen.

- This function is only available for the last image shot when you have set the camera to 2 or more shots in or mode.
- This function is only available for the last image shot in and modes.
- Not available in , or mode.

6

Getting More Out of Your Camera

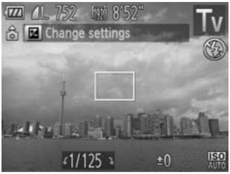
This chapter explains how to shoot in Tv, Av and M modes.
How to use C1 and C2 modes is also explained.



- This chapter assumes that the camera has been set to the corresponding mode.

Setting the Shutter Speed

You can set the shutter to the speed at which you want to shoot. The camera will set the appropriate aperture value for the shutter speed you set.
Tv stands for "Time value".



1 Set the mode dial to Tv.

2 Adjust the setting.

- Turn the ◎ dial to set the shutter speed.

3 Shoot.

Available Shutter Speeds

15", 13", 10", 8", 6", 5", 4", 3"2, 2"5, 2", 1"6, 1"3, 1", 0"8, 0"6, 0"5, 0"4, 0"3, 1/4, 1/5, 1/6, 1/8, 1/10, 1/13, 1/15, 1/20, 1/25, 1/30, 1/40, 1/50, 1/60, 1/80, 1/100, 1/125, 1/160, 1/200, 1/250, 1/320, 1/400, 1/500, 1/640, 1/800, 1/1000, 1/1250, 1/1600, 1/2000, 1/2500, 1/3200

- 2" indicates 2 seconds, 0"3 indicates 0.3 second and 1/160 indicates 1/160 second.
- The fastest shutter speed when using the flash is 1/2000 second. The camera automatically resets the shutter speed to 1/2000 second if a faster shutter speed is chosen.
- Depending on the zoom position, some shutter speeds may not be available.

> - When shutter speeds of 1.3 seconds or slower are used, images are processed to reduce noise after being taken. A certain amount of processing time may be needed before you can take the next shot.
> - You should set [IS Mode] to [Off] when lowering the shutter speed and shooting with a tripod (p. 168).
> - When shutter speeds of 1.3 seconds or slower are used, the ISO speed is fixed to ISO 100.

What if the aperture value appears in orange?

If the aperture value appears in orange when the shutter button is pressed halfway, the scene has exceeded the correct exposure limits. Adjust the shutter speed until the aperture value appears in white (Safety shift can also be used (p. 103)).

Setting the Aperture Value

You can set the aperture to a value at which you want to shoot. The camera will set the appropriate shutter speed for the aperture value you set.
Av stands for "Aperture value", which refers to the size of the aperture opening inside the lens.



1 Set the mode dial to Av.

2 Adjust the setting.

- Turn the dial to set the aperture value.

3 Shoot.

Available Aperture Values

F2.7, F3.2, F3.5, F4.0, F4.5, F5.0, F5.6, F5.8, F6.3, F7.1, F8.0

- Depending on the zoom position, some aperture values may not be available.

What if the shutter speed appears in orange?

If the shutter speed appears in orange when the shutter button is pressed halfway, the scene has exceeded the correct exposure limits. Adjust the aperture value until the shutter speed appears in white. Safety shift can also be used (see below).

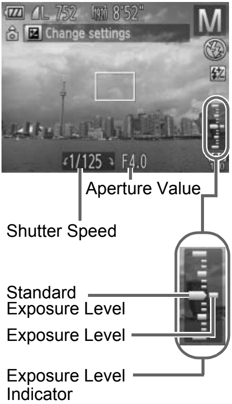
Safety Shift

In Tv and Av modes, if you press the MENU button to display the tab, and set [Safety Shift] to [On], the shutter speed or aperture value is automatically adjusted for the correct exposure when it cannot otherwise be obtained.
Safety Shift is disabled when the flash is enabled.

Setting the Shutter Speed and Aperture Value

You can manually set the shutter speed and aperture to shoot images with the exposure you want. M stands for "Manual".

1 Set the mode dial to M.



2 Choose a setting.

- Press the ▲ button to choose the shutter speed or aperture value.
- Turn the dial to set a value.
- ▶ The set exposure level appears on the indicator. You can check the difference against the standard exposure level.
- ▶ When the difference is more than ±2 stops, the set exposure level appears in orange. When you press the shutter button halfway, "–2" or "+2" appears in orange.

- The standard exposure is calculated according to the metering method chosen (p. 95).
- If you use the zoom or change the composition after making settings, the exposure level may change.
- Depending on the shutter speed and aperture value set, the screen brightness may change. If the flash is raised and set to ⚡, the screen brightness will not change.
- If you press the ▲ button while holding down the shutter button halfway, the shutter speed or aperture value (whichever is not chosen in Step 2), will automatically adjust to obtain the correct exposure (the correct exposure may not be obtained depending on the settings).

Adjusting the Flash Output

In M mode, you can choose 3 levels of flash output.

1 Set the mode dial to M.



2 Choose the flash output level.

- After pressing the (FUNC. SET) button, press the ▲▼ buttons to choose [flash output icon].

3 Complete the setting.

- Press the ◀▶ buttons or turn the (dial) dial to choose the flash output level, then press the (FUNC. SET) button.
- ▶ Once set, [flash output icon] will appear on the screen.

- You can also set the flash output level by pressing the MENU button to choose [Flash Control] (p. 99) in the [camera] tab, then choose [Flash Output] and press the ◀▶ buttons to choose a setting.
- In Tv and Av modes, you can set the flash output level if you choose [Flash Control] in the [camera] tab, then set [Flash Mode] to [Manual].
- If you hold down the [flash] button for more than 1 second, the setting screen will appear. If you press the [flash] button then immediately press the MENU button when the flash is raised, the setting screen will appear.

Saving Shooting Settings

You can save commonly used Shooting modes and settings to your preference. To switch to saved settings, simply turn the mode dial to C1 or C2. Even if you switch Shooting modes or turn off the camera, settings that usually cancel (self timer, etc.) will be saved.

Settings that Can be Saved

- Shooting modes (P, Tv, Av and M)
- Items set in P, Tv, Av or M (pp. 78 – 104)
- Items in the shooting menu
- Zoom position
- Manual focus position (p. 93)
- My Menu items (p. 171)

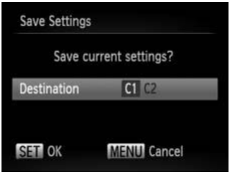
---

1 Enter a Shooting mode and make settings.



2 Choose [Save Settings].

- Press the MENU button, choose [Save Settings] in the camera tab, then press the FUNC./SET button.



3 Save the settings.

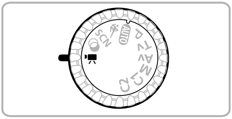
- Press the ◀▶ buttons or turn the control dial to choose a destination, then press the FUNC./SET button.

> - To change part of the saved settings (except the Shooting mode), choose C1 or C2 and change the settings, then repeat Steps 2 – 3. These settings will not be reflected in other Shooting modes.
> - To return contents saved to C1 or C2 to the default settings, turn the mode dial to C1 or C2, then choose [Reset All] (p. 47).

7

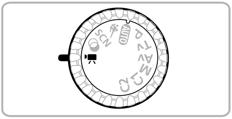
Using Various Functions for Shooting Movies

This chapter serves as a more advanced version of the “Shooting Movies” and “Viewing Movies” sections in Chapter 1, and explains how to use various functions for shooting and viewing movies.



- This chapter assumes that you have set the mode dial to 🎥. However, even if the mode dial is set to a position other than 🎥, movies can be shot by pressing the movie button.
- The latter half of the chapter explaining movie playback and editing assumes that you have pressed the ▶ button to enter Playback mode.

Shooting Movies in Mode



1 Enter mode.

- Set the mode dial to .

2 Adjust the settings according to your purposes (pp. 108 – 116).

3 Shoot.

- Press the movie button.
- To stop shooting the movie, press the movie button again.

Changing the Movie Mode

You can choose among 3 different Movie modes.



Choose a Movie mode.

- After pressing the FUNC./SET button, press the ▲▼ buttons to choose .
- Press the ◀▶ buttons or turn the dial to choose a Movie mode, then press the FUNC./SET button.

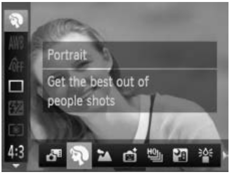
	Standard	Shoots standard movies.
	iFrame Movie	Shoots movies that can be edited with iFrame*1 compatible software*2 or devices. The recording pixel setting will be fixed at 1280 (p. 113).
	Super Slow Motion Movie	Shoots fast moving subjects and plays them back in slow motion (p. 111).

*1 Video type advocated by Apple.

*2 You can quickly edit and save iFrame movies if you use the included software.

Shooting Various Kinds of Movies

Just as with still images, you can let the camera select the best settings for the scene or add various effects while shooting movies.



1 Choose a Shooting mode.

- Follow Steps 1 – 2 on p. 61, or Steps 1 – 2 on p. 64 to choose a Shooting mode.

2 Shoot.

- Press the movie button.
- ▶ Depending on the Shooting mode or movie image quality (p. 113) you choose, black bars may appear on the top and bottom of the screen. These areas will not be recorded when shooting.
- To stop shooting the movie, press the movie button again.

Portrait	p. 61
Landscape	p. 61
Beach	p. 62
Foliage	p. 62
Snow	p. 62
Fireworks	p. 63

Miniature Effect	p. 110
Monochrome	p. 67
Super Vivid	p. 64
Poster Effect	p. 64
Color Accent	p. 67
Color Swap	p. 68

- You can also record movies in other Shooting modes by pressing the movie button.
- Certain settings made in the FUNC. and Shooting menus will automatically change to match settings for shooting movies.

Shoot Movies That Look Like a Miniature Model (Miniature Effect)

You can shoot movies that look like moving miniature models. You create the miniature model effect by choosing the upper and lower portions of the scene that will be blurred, and the playback speed, which makes people and objects in the scene move quickly during playback. Audio will not be recorded.

1 Choose .

- Follow Steps 1 – 2 on p. 64 to choose .
- ▶ A white frame (the area that will not be blurred) appears on the screen.



2 Choose the area to keep in focus.

- Press the DISP. button.
- Move the zoom lever to change the frame size, and press the ▲▼ buttons to change the frame position.



3 Choose a playback speed.

- Press the MENU button.
- Press the ◀▶ buttons or turn the dial to choose a playback speed.
- Press the MENU button to complete the setting and restore the shooting screen.

4 Shoot.

- Press the movie button.
- To stop shooting the movie, press the movie button again.

Playback Speeds and Estimated Playback Times (for 1 Min. Clips)

Speed	Playback Time
5x	Approx. 12 sec.
10x	Approx. 6 sec.
20x	Approx. 3 sec.

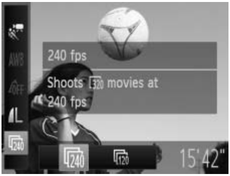
- The image quality will be fixed at 640 when an aspect ratio of 4:3 is chosen, and 1280 when an aspect ratio of 16:9 is chosen (p. 55).
- If you press the FUNC./SET button in Step 2, the horizontal/vertical orientation of the frame will switch, and you can press the ◀▶ buttons to change the frame position when it is displayed vertically.
- Holding the camera vertically will change the orientation of the frame.
- Since you may not achieve the expected results depending on the shooting conditions, try taking some test shots first.

Shooting Super Slow Motion Movies

You can shoot fast moving subjects and play them back in slow motion. Audio will not be recorded.

1 Choose .

- Follow the steps for “Changing the Movie Mode” on p. 108 to choose .



2 Choose a frame rate.

- After pressing the FUNC./SET button, press the ▲▼ buttons to choose 240.
- Press the ◀▶ buttons or turn the dial to choose an option, then press the FUNC./SET button.
- ▶ The option you set will appear on the screen.



3 Shoot.

- Press the movie button.
- ▶ The bar showing the shooting time will appear. Maximum clip length is approx. 30 sec.
- To stop shooting the movie, press the movie button again.

Frame Rates and Playback Times (for 30 Sec. Clips)

Frame Rate	Playback Time
240 240 fps	Approx. 4 min.
120 120 fps	Approx. 2 min.

Viewing super slow motion movies

- The movie will play back in slow motion when you follow Steps 1 – 3 on p. 32.
- You can use the included software to change the playback speed of movies shot in mode. Refer to the *Software Guide* for details.

- The recording pixel setting will be fixed at 320 (320 x 240 pixels) when shooting in 240, and 640 when shooting in 120.
- Even if you move the zoom lever, the zoom will not operate while shooting.
- The focus, exposure and white balance will be set when the movie button is pressed.

Changing the Image Quality

You can choose among 3 different image quality settings.



1 Choose the image quality setting.

- After pressing the FUNC./SET button, press the ▲▼ buttons to choose 1920.

2 Choose an option.

- Press the ◀▶ buttons or turn the dial to choose an option, then press the FUNC./SET button.
- ▶ The option you set will appear on the screen.

Image Quality and Shooting Time per Memory Card

Image Quality	Recording Pixels, Frame Rate	Content	Memory Card Capacity	
			4 GB	16 GB
1920	1920 x 1080 pixels, 24 frames/sec.	For shooting full high-definition (HD) movies.	Approx. 14 min. 34 sec.	Approx. 59 min. 40 sec.
1280	1280 x 720 pixels, 30 frames/sec.	For shooting high-definition (HD) movies.	Approx. 20 min. 43 sec.*1	Approx.1 hr. 24 min. 54 sec.*2
640	640 x 480 pixels, 30 frames/sec.	For shooting standard definition (SD) movies.	Approx. 43 min. 43 sec.	Approx. 2 hr. 59 min. 03 sec.

*1 Approx. 13 min. 35 sec. for iFrame movies (p. 108).

*2 Approx. 55 min. 38 sec. for iFrame movies (p. 108).

- Based on Canon's testing standards.
- Recording will automatically stop when the clip file size reaches 4 GB, or when the recording time reaches approximately 29 minutes and 59 seconds when shooting in 1920 or 1280, and approximately 1 hour when shooting in 640.
- Recording may stop even if the maximum clip length has not been reached on some memory cards. SD Speed Class 6 or higher memory cards are recommended.

In 1920 and 1280, black bars appear on the top and bottom of the screen. These areas cannot be recorded.

Taking Still Images while Shooting a Movie

You can shoot still images while shooting a movie.



1 Focus while shooting a movie.

- Make sure that [camera icon] appears on the screen, then press the shutter button halfway.
- ▶ The focus and exposure will readjust (the camera will not beep).
- ▶ The movie will continue shooting.

2 Shoot.

- Press the shutter button fully.
- ▶ The still image will be recorded.

What if you cannot take a still image?

You may not be able to take still images when the writing speed to the memory card is slow, or when there is insufficient internal memory. In [mode icon] and [mode icon] modes, [no still icon] will appear on the screen while shooting a movie and you will not be able to shoot still images.

- [camera icon] (blinking): Processing recorded image. You can shoot when the icon stops blinking.
- [no still icon] : Still images cannot be taken.

- A still image with an aspect ratio of 16:9 will be recorded when shooting in 1920 and 1280 (16:9 aspect ratio).
- A still image with an aspect ratio of 4:3 will be recorded when shooting in 640 (4:3 aspect ratio).
- If the aspect ratio setting for still images differs from the aspect ratio setting for movies, still images will be recorded at a setting of L .
- The shutter sound and black screen that occur when shooting a still image will be recorded in the movie.
- The flash will not fire.
- The shooting date and time (p. 52) cannot be recorded in the image.
- The ISO speed will switch to ISO AUTO.
- i-Contrast (p. 79) is not available.
- If shooting still images fills the internal memory, the movie may stop recording.

AE Lock/Exposure Shift

You can lock the exposure or change it in 1/3 steps within a range of –2 to +2 before shooting.



1 Lock the exposure.

- Press the ▲ button to lock the exposure. The exposure shift bar appears.
- Press the ▲ button again to release the lock.

2 Change the exposure.

- While watching the screen, turn the dial to adjust the exposure.

3 Shoot.

- Press the movie button.
- To stop shooting the movie, press the movie button again.

Sound Settings

Adjusting the Recording Volume

You can manually set the recording volume for shooting movies.



- Press the MENU button to choose [Movie Audio] in the tab, then press the FUNC./SET button.
- Press the ▲▼ buttons or turn the dial to choose [Mic Level], then press the ◀▶ buttons to choose [Manual].

Auto	The recording volume is automatically adjusted to reduce sound distortion.
Manual	After pressing the ▼ button, press the ◀▶ buttons to set the sound recording level (recording volume).

Using the Wind Filter

Wind Filter suppresses noise when the wind is strong. However, unnatural sound may result when used to record in locations with no wind.



- Press the MENU button to choose [Movie Audio] in the [camera] tab, then press the [FUNC./SET] button.
- Press the ▲▼ buttons or turn the [dial] dial to choose [Wind Filter], then press the ◀▶ buttons to choose [On].

Other Shooting Functions

The following functions can be used in the same way as for still images. However, depending on the Shooting mode, settings may not be available or may not have any effect.

- **Zooming in More Closely On Subjects**
  The sound of zoom operations will be recorded.
- **Using the Self-Timer (p. 53)**
  The number of shots cannot be set.
- **Adjusting the White Balance (p. 80)**
- **Changing the Tone of an Image (My Colors) (p. 81)**
- **Shooting Close-ups (Macro) (p. 84)**
- **Shooting with the AF Lock (p. 91)**
- **Shooting in Manual Focus Mode (p. 93)**
- **Shooting Using a TV as the Display (p. 175)**
- **Turning Off the AF Assist Beam (p. 165)**
- **Customizing Display Information (p. 167)**
- **Changing the IS-Mode Settings (p. 168)**
  You can switch between [Continuous] and [Off].
- **Registering Functions to the [S] Button (p. 170)**

Editing

You can trim the beginnings and ends of recorded movies.



Movie Editing Panel



Movie Editing Bar

1 Choose ✂.

- Follow Steps 1 – 3 on p. 32 to choose ✂, then press the (FUNC./SET) button.
- ▶ The movie editing panel and the movie editing bar will appear.

2 Set the editing range.

- Press the ▲▼ buttons to choose [trim beginning] or [trim end].
- If you press the ◀▶ buttons or turn the (dial) dial to move ▮, ✂ will appear at points where the movie can be edited. If you choose [trim beginning], you can trim the beginning of the movie from ✂. If you choose [trim end], you can trim the end of the movie from ✂.
- Even if you move ▮ to a point other than a ✂, only the portion from the nearest ✂ to the left will be trimmed when [trim beginning] is chosen. Only the portion from the nearest ✂ to the right will be trimmed when [trim end] is chosen.

3 Check the edited movie.

- Press the ▲▼ buttons to choose ▶, then press the (FUNC./SET) button. The edited movie will play.
- To edit the movie again, repeat Step 2.
- To cancel editing, press the ▲▼ buttons to choose ↩. After pressing the (FUNC./SET) button, press the ◀▶ buttons or turn the (dial) dial to choose [OK], then press the (FUNC./SET) button again.



4 Save the edited movie.

- Press the ▲▼ buttons to choose [save icon], then press the (FUNC/SET) button.
- Press the ▲▼◀▶ buttons or turn the (dial) dial to choose [New File], then press the (FUNC/SET) button.
- ▶ The movie will be saved as a new file.

- When [Overwrite] is chosen in Step 4, the unedited movie is overwritten with the edited movie, erasing the original.
- When there is not enough space left on the memory card, only [Overwrite] can be chosen.
- If the battery is depleted partway through saving, the edited movie clips may not be saved.
- When editing movies, you should use a fully charged battery, or an AC adapter kit (sold separately) (p. 212).

8

Using Various Playback and Editing Functions

This chapter explains various ways to play back and edit images.

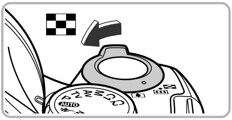
- Press the ▶ button to enter Playback mode before operating the camera.

- It may not be possible to play back or edit images that have been edited on a computer, have had their file names changed, or have been taken on a different camera.
- The edit function (pp. 139 – 143) cannot be used if the memory card does not have enough free space available.

Quickly Searching Images

Searching Images Using Index Display

Displaying multiple images at the same time lets you quickly find the image you want.



1 Move the zoom lever toward [index icon].

- ▶ Images will display in an index.
- The number of images increases each time you move the lever toward [index icon].
- The number of images decreases each time you move the lever toward [magnify icon].



2 Choose an image.

- Turn the [dial] dial to switch images.
- Press the ▲▼◀▶ buttons to choose an image.
- ▶ An orange frame appears on the chosen image.
- Press the [FUNC./SET] button to display the chosen image by itself.

Searching Images by Scrolling

Turning the [dial] dial will display images in a line letting you quickly search them. You can also jump by the shooting date (Scroll Display).



Choose an image.

- If you set the camera to single image playback and turn the [dial] dial quickly, the images will display as shown on the left. Turn the [dial] dial to choose an image.
- Press the [FUNC./SET] button to restore single image playback.
- Press the ▲▼ buttons during scroll display to search images by the shooting date.

To turn off this effect, press the MENU button to choose [Scroll Display] in the [▶] tab, then choose [Off].

Viewing Movies Made with Movie Digest

You can select movies made in mode (p. 70) by date for viewing.



1 Choose [Movie Digest Playback].

- After pressing the MENU button, choose [Movie Digest Playback] in the ▶ tab, then press the FUNC./SET button.

2 Choose a movie date.

- Press the ▲▼ buttons or turn the dial.

3 Play the movie.

- Press the FUNC./SET button.
- ▶ The movie will play.

Viewing Images in Filtered Playback

When there are many images on the memory card, you can filter and display them by a specified filter. You can also protect (p. 128) or erase (p. 132) images at once while filtered.

	Jump to Favorites	Displays the images tagged as favorites (p. 134)
	Jump Shot Date	Displays the images shot on a specified date.
	Jump to My Category	Displays the images of a specified category (p. 135).
	Jump to Still/Movie	Displays still images, movies or movies shot in mode
	Jump 10 Images	Jumps over 10 images at a time.
	Jump 100 Images	Jumps over 100 images at a time.

Search by [★], [date], [category] and [movie]



Target Filters

1 Choose a target filter.

- In single image playback, press the [filter] button, then press the ▲▼ buttons to choose a jump method.
- In [date], [category] or [movie], press the ◀▶ buttons to choose a filter. Turning the [dial] dial will only display images that match the filter of the chosen target image.
- Press the DISP. button to switch between Information Display and No Information Display.
- Press the MENU button to restore single image playback.



2 View the filtered images.

- Press the (FUNC/SET) button to start filtered playback. The jump method and a yellow frame will appear.
- If you press the ◀▶ buttons or turn the [dial] dial, the chosen target images will display.
- If you press the [filter] button, [Filtered playback settings cleared] appears on the screen. Press the (FUNC/SET) button to cancel filtered playback.

What if you cannot choose a filter?

Filters that do not have any corresponding images cannot be chosen.

Filtered playback

In filtered playback (Step 2), you can view filtered images with “Quickly Searching Images” (p. 120), “Viewing Slideshows” (p. 124), and “Magnifying Images” (p. 125). You can process all filtered images at once while performing operations in “Protecting Images” (p. 128), “Erasing Images” (p. 132), or “Choosing Images for Printing (DPOF)” (p. 152), by choosing all of the filtered images.
However, if you change the category (p. 135), or edit an image and save it as a new image (p. 139), a message will appear, and filtered playback will cancel.

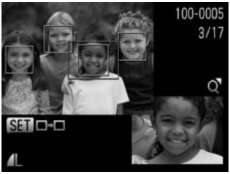
Jump by 10 and 100 Images



- In single image playback, press the button, then press the ▲▼ buttons to choose a jump method.
- If you press the ◀▶ buttons, the display will advance to the image that is the chosen number of images away.
- Press the MENU button to restore single image playback.

Checking the Focus

You can magnify the area of a recorded image that was inside the AF Frame to check the focus.



1 Press the DISP. button to switch to the focus check display (p. 40).

- ▶ A white frame will appear where the AF frame was when the focus was set.
- ▶ A gray frame will appear on a face detected during playback.
- ▶ The area within the orange frame appears magnified.



2 Switch frames.

- Move the zoom lever toward Q once.
- ▶ The screen shown on the left will appear.
- Press the (FUNC/SET) button to move to a different frame when multiple frames appear.

3 Change the magnification level or location.

- Use the zoom lever to change the display size, and the ▲▼◀▶ buttons to change the display position while checking the focus.
- Press the MENU button to reset the display to Step 1.

The focus check display is not available for movies.

Viewing Slideshows

You can automatically play back images recorded to a memory card.



1 Choose [Slideshow].

- Press the MENU button to choose [Slideshow] in the ▶ tab, then press the FUNC./SET button.



2 Choose a setting.

- Press the ▲▼ buttons or turn the dial to choose a menu item, then press the ◀▶ buttons to adjust the setting.

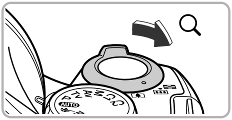
Repeat	Repeats playback of images
Play Time	Display time for each image
Effect	Transition effects when switching between images

3 Choose [Start].

- Press the ▲▼ buttons or turn the dial to choose [Start], then press the FUNC./SET button.
- ▶ The slideshow will start a few seconds after [Loading image...] appears on the screen.
- You can pause/restart a slideshow by pressing the FUNC./SET button again.
- Press the MENU button to stop the slideshow.

- If you press the ◀▶ buttons or turn the dial during playback, the image will switch. If you keep the ◀▶ buttons pressed, you can fast-forward through images.
- The power saving function (p. 48) does not work during slideshows.
- You cannot change [Play Time] if [Bubble] is chosen in [Effect].
- In single image playback, you can also start a slideshow by pressing and holding the FUNC./SET button and immediately pressing the S button.

Magnifying Images





Approximate Location of Displayed Area

Move the zoom lever toward Q.

- The display will zoom in on the image. If you continue to hold the zoom lever, it will zoom in up to a maximum factor of approximately 10x.
- If you press the ▲▼◀▶ buttons, you can move the location of the displayed area.
- Move the zoom lever toward ▦ to zoom out, or continue to hold it to return to single image playback.
- If you turn the ◎ dial, you can switch images while zoomed.

- In magnified display, pressing the MENU button restores single image playback.
- Movies cannot be magnified.

Viewing Each Image in a Group

Grouped images taken in HQ mode (p. 74) can also be viewed individually.



1 Choose an image group.

- Press the ◀▶ buttons or turn the ◎ dial to choose an image that displays SET ▭, then press the FUNC/SET button.



2 View each image in the group.

- If you press the ◀▶ buttons or turn the ◎ dial, only the grouped images will display.
- If you press the ⎌ button, [Display all images] will appear on the screen. Press the FUNC/SET button to exit group playback.

Group playback

In group playback (Step 2), you can search (p. 120) and magnify (p. 125) images. You can process all the images in a group at once while in “Protecting Images” (p. 128), “Erasing Images” (p. 132), or “Choosing Images for Printing (DPOF)” (p. 152), by choosing a set of grouped images.

Ungrouping Images

Grouped images taken in HQ mode can be ungrouped and viewed individually.



1 Choose [Group Images].

- Press the MENU button to choose [Group Images] in the ▶ tab.



2 Choose a setting.

- Press the ◀▶ buttons to choose [Off].
- Press the MENU button to complete the setting and restore single image playback.
- ▶ Grouped images taken in HQ mode are ungrouped and appear individually.
- To regroup the images, follow the steps above to choose [On].

Grouping cannot be canceled while viewing images individually (p. 125).

Displaying Various Images (Smart Shuffle)

The camera will choose 4 images based on the displayed image. If you choose one of those images, the camera will select 4 more images letting you enjoy playing back images in an unexpected order. This will work best if you take many shots of various scenes.



1 Choose [Smart Shuffle].

- Press the MENU button to choose [Smart Shuffle] in the ▶ tab, then press the FUNC./SET button.
- ▶ Four images will appear as possibilities.



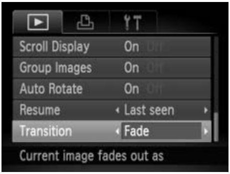
2 Choose an image.

- Press the ▲▼◀▶ buttons to choose the image you want to view next.
- ▶ The chosen image will be displayed in the center, and the next 4 possibilities will appear.
- Press the FUNC./SET button to display the center image at full size. Press the FUNC./SET button again to restore the original display.
- Press the MENU button to restore single image playback.

- Only still images shot with this camera will play back in Smart Shuffle.
- [Smart Shuffle] is not available in the following situations:
  - If there are less than 50 images taken with this camera on the memory card
  - If you play back images not supported by Smart Shuffle
  - During filtered playback

Changing Image Transitions

You can choose from 3 transition effects when switching between images in single image playback.



Choose [Transition].

- Press the MENU button to choose [Transition] in the ▶ tab, then press the ◀▶ buttons to choose a transition effect.

Protecting Images

You can protect important images so that they cannot be accidentally erased with the camera (pp. 29, 132).

Choosing a Selection Method



1 Choose [Protect].

- Press the MENU button to choose [Protect] in the ▶ tab, then press the FUNC./SET button.



2 Choose a selection method.

- Press the ▲▼ buttons or turn the dial to choose a selection method, then press the FUNC./SET button.
- Press the MENU button to complete the setting and restore the menu screen.

If you format the memory card (pp. 23, 159), protected images will also be erased.

Protected images cannot be erased with the camera's erase function. To erase an image, cancel protection settings first.

Choosing Images Individually

1 Choose [Select].

- Follow Step 2 on p. 128 to choose [Select], then press the FUNC./SET button.



2 Choose images.

- Press the ◀▶ buttons or turn the dial to choose an image, then press the FUNC./SET button.
- ▶ The protect icon will appear on the screen.
- Press the FUNC./SET button again to deselect the image. The protect icon will disappear.
- To choose additional images, repeat the above procedure.



3 Protect the image.

- If you press the MENU button, a confirmation screen will appear.
- Press the ◀▶ buttons or turn the dial to choose [OK], then press the FUNC./SET button.

> If you switch to Shooting mode or turn off the camera before performing the operations in Step 3, images will not be protected.

Selecting a Range

1 Choose [Select Range].

- Follow Step 2 on p. 128 to choose [Select Range], then press the (FUNC./SET) button.



2 Choose a starting image.

- Press the (FUNC./SET) button.



- Press the ◀▶ buttons or turn the ◎ dial to choose an image, then press the (FUNC./SET) button.



3 Choose an ending image.

- Press the ▶ button to choose [Last image], then press the (FUNC./SET) button.



- Press the ◀▶ buttons or turn the ◎ dial to choose an image, then press the (FUNC./SET) button.
- You cannot choose images before the first image.



4 Protect images.

- Press the ▼ button to choose [Protect], then press the (FUNC/SET) button.

Choosing images with the (dial) dial

You can also choose the first or last image by turning the (dial) dial when the upper screen in Steps 2 and 3 is displayed.

Choosing All Images

1 Choose [All Images].

- Follow Step 2 on p. 128 to choose [All Images], then press the (FUNC/SET) button.



2 Protect images.

- Press the ▲▼ buttons or turn the (dial) dial to choose [Protect], then press the (FUNC/SET) button.

You can unlock groups of protected images if you choose [Unlock] in Step 4 in “Selecting a Range”, or Step 2 in “Choosing All Images”.

Erasing Images

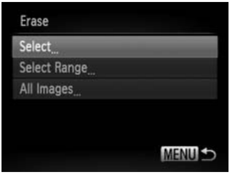
You can erase all images at once. Since erased images cannot be recovered, exercise adequate caution before erasing. Protected images (p. 128) cannot be erased.

Choosing a Selection Method



1 Choose [Erase].

- Press the MENU button to choose [Erase] in the ▶ tab, then press the FUNC./SET button.



2 Choose a selection method.

- Press the ▲▼ buttons or turn the dial to choose a selection method, then press the FUNC./SET button.
- Press the MENU button to restore the menu screen.

Choosing Images Individually

1 Choose [Select].

- Follow Step 2 above to choose [Select], then press the FUNC./SET button.



2 Choose an image.

- If you follow Step 2 on p. 129 to choose images, ✓ will appear on the screen.
- Press the FUNC./SET button again to deselect the image. ✓ will disappear.
- To choose additional images, repeat the above procedure.



3 Erase.

- If you press the MENU button, a confirmation screen will appear.
- Press the ◀▶ buttons or turn the dial to choose [OK], then press the FUNC./SET button.

Selecting a Range

1 Choose [Select Range].

- Follow Step 2 on p. 132 to choose [Select Range], then press the FUNC./SET button.

2 Choose images.

- Follow Steps 2 and 3 on p. 130 to choose images.



3 Erase.

- Press the ▼ button to choose [Erase], then press the FUNC./SET button.

Choosing All Images

1 Choose [All Images].

- Follow Step 2 on p. 132 to choose [All Images], then press the FUNC./SET button.



2 Erase.

- Press the ◀▶ buttons or turn the dial to choose [OK], then press the FUNC./SET button.

Tagging Images as Favorites

When you tag images as favorites, you can easily categorize just those images. You can also filter out just those images for viewing, protecting or erasing (p. 121).



1 Choose [Favorites].

- Press the MENU button to choose [Favorites] in the ▶ tab, then press the FUNC./SET button.



2 Choose an image.

- Press the ◀▶ buttons or turn the dial to choose an image, then press the FUNC./SET button.
- ▶ ★ will appear on the screen.
- Press the FUNC./SET button again to untag the image. ★ disappears.
- To choose additional images, repeat the above procedure.



3 Complete the setting.

- If you press the MENU button, a confirmation screen will appear.
- Press the ◀▶ buttons or turn the dial to choose [OK], then press the FUNC./SET button.

> If you switch to Shooting mode or turn off the camera before completing the setting in Step 3, images will not be tagged as favorites.

> If you use Windows 7 or Windows Vista and transfer tagged images to the computer, they will be given a star rating of 3 (★★★☆☆) (except for movies).

Organizing Images by Category (My Category)

You can organize images into categories. You can display the images in a category in filtered playback (p. 121) and process all images at once by using the functions below.

- “Viewing Slideshows” (p. 124), “Protecting Images” (p. 128), “Erasing Images” (p. 132), “Choosing Images for Printing (DPOF)” (p. 152)

Images are automatically categorized by shooting condition as they are shot.

- : Images with detected faces, or images shot in .
- : Images detected as , or in AUTO mode, or images shot in , or .
- : Images shot in , , or .

Choosing a Selection Method



1 Choose [My Category].

- Press the MENU button to choose [My Category] in the ▶ tab, then press the FUNC./SET button.



2 Choose a selection method.

- Press the ▲▼ buttons or turn the dial to choose a selection method, then press the FUNC./SET button.
- Press the MENU button to restore the menu screen.

Choosing Images Individually

1 Choose [Select].

- Follow Step 2 on p. 135 to choose [Select], then press the (FUNC./SET) button.



2 Choose an image.

- Press the ◀▶ buttons or turn the (dial) dial to choose an image.

3 Choose a category.

- Press the ▲▼ buttons to choose a category, then press the (FUNC./SET) button.
- ▶ ✓ will appear on the screen.
- Press the (FUNC./SET) button again to deselect the image. ✓ will disappear.
- To choose additional images, repeat the above procedure.



4 Complete the setting.

- If you press the MENU button, a confirmation screen will appear.
- Press the ◀▶ buttons or turn the (dial) dial to choose [OK], then press the (FUNC./SET) button.

(!) If you switch to Shooting mode or turn off the camera before completing the setting in Step 4, images will not be tagged as My Category.

Selecting a Range

1 Choose [Select Range].

- Follow Step 2 on p. 135 to choose [Select Range], then press the FUNC./SET button.

2 Choose images.

- Follow Steps 2 and 3 on p. 130 to choose images.



3 Choose a category.

- Press the ▼ button to choose an item, then press the ◀▶ buttons or turn the dial to choose a category.

4 Complete the setting.

- Press the ▼ button to choose [Select], then press the FUNC./SET button.

If you choose [Deselect] in Step 4, you can deselect all of the images in the [Select Range] category.

Rotating Images

You can change the orientation of an image and save it.



1 Choose [Rotate].

- Press the MENU button to choose [Rotate] in the ▶ tab, then press the FUNC./SET button.



2 Rotate the image.

- Press the ◀▶ buttons or turn the dial to choose an image.
- The image will rotate 90° with each press of the FUNC./SET button.
- Press the MENU button to restore the menu screen.

- Movies with an image quality setting of 1920 or 1280 cannot be rotated.
- Images cannot be rotated (p. 172) if [Auto Rotate] is set to [Off].

Resizing Images

You can resize images to a lower pixel setting and save the resized image as a separate file.



1 Choose [Resize].

- Press the MENU button to choose [Resize] in the ▶ tab, then press the FUNC./SET button.

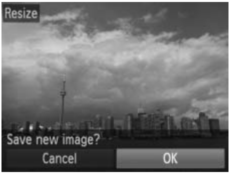
2 Choose an image.

- Press the ◀▶ buttons or turn the dial to choose an image, then press the FUNC./SET button.



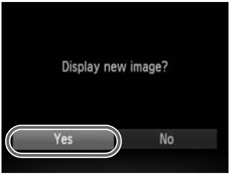
3 Choose an image size.

- Press the ◀▶ buttons or turn the dial to choose an option, then press the FUNC./SET button.
- ▶ [Save new image?] will appear on the screen.



4 Save the new image.

- Press the ◀▶ buttons or turn the dial to choose [OK], then press the FUNC./SET button.
- ▶ The image will be saved as a new file.



5 Display the new image.

- When you press the MENU button, [Display new image?] will appear on the screen.
- Press the ◀▶ buttons or turn the dial to choose [Yes], then press the FUNC./SET button.
- ▶ The saved image will be displayed.

- You cannot resize an image to a larger size.
- Images saved as XS in Step 3 cannot be edited.
- Movies cannot be edited.

Trimming

You can cut out a portion of a recorded image and save it as a new image file.



1 Choose [Trimming].

- Press the MENU button to choose [Trimming] in the ▶ tab, then press the FUNC/SET button.

2 Choose an image.

- Press the ◀▶ buttons or turn the dial to choose an image, then press the FUNC/SET button.

3 Adjust the trimming area.

Trimming Area



Trimming Area Display

Recorded pixels after trimming



- ▶ A frame will appear around the portion of the image to be trimmed.
- ▶ The original image will display in the upper left and the trimmed image will display in the lower right.
- Move the zoom lever to change the frame size.
- Press the ▲▼◀▶ buttons to move the frame.
- Press the DISP. button to change the frame orientation.
- In an image with detected faces, gray frames appear around the faces located in the upper left image. The frames can be used for trimming. You can switch between frames by turning the dial.
- Press the FUNC/SET button.

4 Save as a new image and display.

- Follow Steps 4 and 5 on p. 139.

- Images recorded at a pixel setting of S (p. 57), or images resized to XS (p. 139) cannot be edited.
- Images that can be trimmed will have the same width and height ratio after trimming.
- The number of recorded pixels in a trimmed image will be smaller than before trimming.
- Movies cannot be edited.

Adding Effects with the My Colors Function

You can change the color of an image and save it as a separate image. Refer to p. 81 for details on each menu item.



1 Choose [My Colors].

- Press the MENU button to choose [My Colors] in the ▶ tab, then press the FUNC./SET button.

2 Choose an image.

- Press the ◀▶ buttons or turn the dial to choose an image, then press the FUNC./SET button.



3 Choose an option.

- Press the ◀▶ buttons or turn the dial to choose an option, then press the FUNC./SET button.

4 Save as a new image and display.

- Follow Steps 4 and 5 on p. 139.

If you repeatedly change the color of the same image, the quality will gradually deteriorate and you may not achieve the expected color.

- The color of images changed with this function may vary from those recorded with the My Colors function (p. 81).
- My Colors settings cannot be applied to movies.

Correcting the Brightness (i-Contrast)

The camera can detect areas in an image, such as faces or backgrounds, that are too dark and automatically adjust them to the optimum brightness. Also, when the overall image is lacking in contrast, the camera will automatically correct the image for a sharper impression. You can choose from 4 levels of correction, and save the image as a new file.



1 Choose [i-Contrast].

- Press the MENU button to choose [i-Contrast] in the ▶ tab, then press the FUNC./SET button.

2 Choose an image.

- Press the ◀▶ buttons or turn the dial to choose an image, then press the FUNC./SET button.



3 Choose an option.

- Press the ◀▶ buttons or turn the dial to choose an option, then press the FUNC./SET button.

4 Save as a new image and display.

- Follow Steps 4 and 5 on p. 139.

- Under some conditions, the image may appear coarse or may not be corrected properly.
- Repeatedly adjusting the same image may cause it to appear coarse.

What if the image wasn't corrected by the [Auto] option as well as you would like?

Choose [Low], [Medium] or [High] and adjust the image.

Movies cannot be corrected.

Correcting the Red-Eye Effect

You can automatically correct red eyes in images and save them as new files.



1 Choose [Red-Eye Correction].

- Press the MENU button to choose [Red-Eye Correction] in the ▶ tab, then press the FUNC./SET button.

2 Choose an image.

- Press the ◀▶ buttons or turn the dial to choose an image.

3 Correct the image.

- Press the FUNC./SET button.
- ▶ Red-eye detected by the camera will be corrected and a frame will appear around the corrected portion.
- You can magnify or reduce the size of the image using the procedures in "Magnifying Images" (p. 125).



4 Save as a new image and display.

- Press the ▲▼◀▶ buttons or turn the dial to choose [New File], then press the FUNC./SET button.
- ▶ The image will be saved as a new file.
- Follow Step 5 on p. 139.

> - Some images may not be corrected properly.
> - When [Overwrite] in Step 4 is chosen, the uncorrected image is overwritten with the corrected data, erasing the original image.
> - Protected images cannot be overwritten.

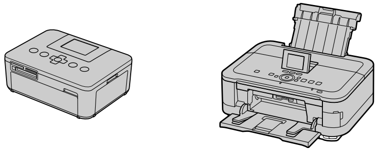
> Movies cannot be corrected.

9

Printing

This chapter explains how to choose images for printing, and print using a Canon-brand PictBridge compliant printer (sold separately).

Canon-Brand PictBridge Compliant Printers



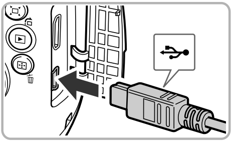
- This chapter uses Canon-brand SELPHY CP series printers in the explanations. The displayed screens and available functions will differ depending on the printer. Please also refer to the Printer User Guide.

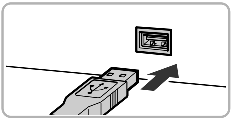
Printing Images

Easy Print

You can easily print the pictures you take by connecting the camera to a PictBridge compliant printer (sold separately) using the supplied interface cable (p. 2).

1 Turn off the camera and printer.

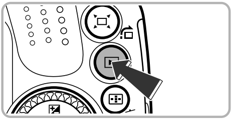




2 Connect the camera to the printer.

- Open the cover and insert the cable's small plug firmly into the camera terminal in the direction shown.
- Insert the cable's large plug into the printer. For connection details, refer to the user guide provided with the printer.

3 Turn on the printer.

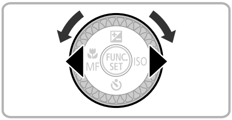


4 Turn on the camera.

- Press the ▶ button to turn on the camera.

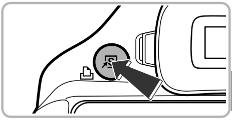


▶ SET will appear on the screen.



5 **Choose an image.**

- Press the ◀▶ buttons or turn the ◎ dial to choose an image.



6 **Print images.**

- Press the 🖶 button.
- ▶ Printing will start.
- If you want to print additional images, repeat Steps 5 and 6 after printing has completed.
- After printing has completed, turn off the camera and printer, and unplug the interface cable.

- Refer to p. 214 for Canon-brand PictBridge compliant printers (sold separately).
- Index printing is not available on certain Canon-brand PictBridge compliant printers (sold separately).

Making Print Settings



1 **Connect the camera to the printer.**

- Follow Steps 1 – 5 on p. 146 to choose an image.
- Press the FUNC./SET button to display the screen on the left.

2 **Choose a menu option.**

- Press the ▲▼ buttons or turn the ◎ dial to choose an option.

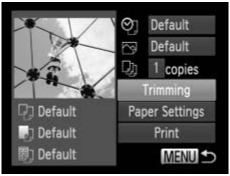
3 **Choose the option settings.**

- Press the ◀▶ buttons to choose the option setting.

	Default	Follows the printer's settings.
	Date	Prints the date.
	File No.	Prints the file number.
	Both	Prints both the date and file number.
	Off	—
	Default	Follows the printer's settings.
	Off	—
	On	Uses shooting information to optimize print settings.
	Red-Eye1	Corrects red-eye.
	No. of Copies	Choose the number of copies.
Trimming	—	Choose the area for printing (p. 148).
Paper Settings	—	Sets the paper size and layout (p. 149).

Trimming and Printing (Trimming)

You can cut out a portion of an image for printing.



1 Choose [Trimming].

- Follow Steps 1 – 2 on p. 147 to choose [Trimming], then press the FUNC./SET button.
- ▶ A frame will appear around the portion of the image to be trimmed.



2 Choose the trimming area.

- Move the zoom lever or turn the dial to change the frame size.
- Press the ▲▼◀▶ buttons to change the frame position.
- Press the DISP. button to rotate the frame.
- Press the FUNC./SET button to complete the setting.

3 Print images.

- In the screen in Step 1, press the ▲▼ buttons or turn the dial to choose [Print], then press the FUNC./SET button.

- You may not be able to trim images depending on the aspect ratio, or if they are too small.
- Trimming photos with embedded dates may not show the dates properly.

Choosing the Paper Size and Layout for Printing



1 Choose [Paper Settings].

- Follow Steps 1 – 2 on p. 147 to choose [Paper Settings], then press the (FUNC./SET) button.



2 Choose a paper size.

- Press the ▲▼ buttons or turn the ◎ dial to choose an option, then press the (FUNC./SET) button.



3 Choose the paper type.

- Press the ▲▼ buttons or turn the ◎ dial to choose an option, then press the (FUNC./SET) button.



4 Choose the layout.

- Press the ▲▼ buttons or turn the ◎ dial to choose an option, then press the (FUNC./SET) button.
- Press the ◀▶ buttons to set the number of prints when [N-up] is chosen.

5 Print images.

Available Layout Options

Default	Follows the printer's settings.
Bordered	Prints with a border.
Borderless	Prints without a border.
N-up	Selects how many copies of an image are printed on a sheet.
ID Photo	Prints ID photos. Only images with a recording pixel setting of L and an aspect ratio of 4:3 can be chosen.
Fixed Size	Choose the print size. Choose from 3.5 x 5 in., postcard and wide sized prints.

Printing ID Photos

1 Choose [ID Photo].

- Follow Steps 1 – 4 on p. 149 to choose [ID Photo], then press the (FUNC/SET) button.



2 Choose the length of the long side and short side.

- Press the ▲▼ buttons or turn the dial to choose an option.
- Press the ◀▶ buttons to choose the length, then press the (FUNC/SET) button.



3 Choose the printing area.

- Follow Step 2 on p. 148 to choose the printing area.

4 Print images.

Printing Movies



1 Connect the camera to the printer.

- Follow Steps 1 – 5 on p. 146 to choose a movie.
- Press the ◀▶ buttons to choose [print icon], then press the (FUNC. SET) button to display the screen on the left.

2 Choose a printing method.

- Press the ▲▼ buttons or turn the (dial) dial to choose [print method icon], then press the ◀▶ buttons to choose a printing method.

3 Print images.

Printing Options for Movies

Single	Prints currently displayed scene as a still image.
Sequence	Prints a sequence of images from a specified scene on a single sheet of paper. If [Caption] is set to [On], you can print the folder number, file number, and the elapsed time for the frame at the same time.

- Pressing the (FUNC. SET) button during printing will cancel printing.
- [ID Photo] and [Sequence] cannot be chosen on Canon brand PictBridge compliant printers from CP720/CP730 and earlier models.

Choosing Images for Printing (DPOF)

You can choose up to 998 images on a memory card for printing and specify settings such as the number of copies so that they can be printed as a batch (p. 156) or processed at a photo developer service. These selection methods comply with the DPOF (Digital Print Order Format) standards.

Movies cannot be chosen.

Choosing Images for Printing with the 🖨 Button

You can add images to the print list (DPOF) directly after shooting or during playback by pressing the 🖨 button.

1 Choose an image.

- Press the ◀▶ buttons or turn the ◎ dial to choose an image.

2 Press the 🖨 button.



3 Add images to the print list.

- Press the ▲▼ buttons to choose the number of prints, then press the ◀▶ buttons or turn the ◎ dial to choose [Add] and press the (FUNC. SET) button.
- To cancel adding images, repeat Steps 1 and 2, and press the ◀▶ buttons or turn the ◎ dial to choose [Remove], then press the (FUNC. SET) button.

You cannot add images to the print list when the camera is connected to the printer.

Print Settings

You can set the print type, date and file number. These settings apply to all images chosen for printing.



1 Choose [Print Settings].

- Press the MENU button to choose [Print Settings] in the 🖶 tab, then press the FUNC. SET button.

2 Choose a setting.

- Press the ▲▼ buttons or turn the dial to choose a menu item, then press the ◀▶ buttons to choose an option.
- Press the MENU button to complete the setting and restore the menu screen.

Print Type	Standard	Prints 1 image per page.
	Index	Prints several reduced size images per page.
	Both	Prints both standard and index formats.
Date	On	Prints the shooting date.
	Off	—
File No.	On	Prints the file number.
	Off	—
Clear DPOF data	On	Removes all print settings after printing.
	Off	—

- Some printers or photo developer services may not be able to reflect all of the settings in the prints.
- ! may appear when using a memory card with print settings set by a different camera. If you change the settings using this camera, all the previous settings may be overwritten.
- If [Date] is set to [On], some printers may print the date twice.

- With [Index] chosen, the [Date] and [File No.] options cannot be set to [On] at the same time.
- The date will be printed in the style set in the [Date/Time] function in the YT tab, which can be chosen after you press the MENU button (p. 20).

Choosing the Number of Copies



1 Choose [Select Images & Qty.].

- Press the MENU button to choose [Select Images & Qty.] in the print tab, then press the FUNC./SET button.

2 Choose an image.

- Press the ◀▶ buttons or turn the dial to choose an image, then press the FUNC./SET button.
- ▶ You will be able to set the number of print copies.
- If you choose images in [Index], ✓ appears on the screen. Press the FUNC./SET button again to deselect the image. ✓ will disappear.



3 Set the number of prints.

- Press the ▲▼ buttons or turn the dial to set the number of prints (maximum 99).
- Repeat Steps 2 and 3 to choose other images and the number of prints for each.
- You cannot set the number of copies for index prints. You can only choose which images to print (as shown in Step 2).
- Press the MENU button to complete the setting and restore the menu screen.

Select Range



1 Choose [Select Range].

- Follow Step 1 on p. 154 to choose [Select Range], then press the FUNC./SET button.

2 Choose images.

- Follow Steps 2 – 3 on p. 130 to choose images.

3 Make print settings.

- Press the ▲▼ buttons to choose [Order], then press the FUNC./SET button.

Set All Images to Print Once



1 Choose [Select All Images].

- Follow Step 1 on p. 154 to choose [Select All Images], then press the FUNC./SET button.

2 Make print settings.

- Press the ◀▶ buttons or turn the ◎ dial to choose [OK], then press the FUNC./SET button.

Clearing All Selections



1 Choose [Clear All Selections].

- Follow Step 1 on p. 154 to choose [Clear All Selections], then press the FUNC./SET button.

2 All selections will be cleared.

- Press the ◀▶ buttons or turn the ◎ dial to choose [OK], then press the FUNC./SET button.

Printing chosen images (DPOF)



- When there are images added to the print list (pp. 152 – 155), the screen on the left will appear when you connect the camera to a PictBridge compliant printer. Press the ▲▼ buttons to choose [Print now], then press the (FUNC./SET) button to easily print images added to the print list.
- If you stop the printer during printing and start again, it will start from the next print.

10

Customizing Camera Settings

You can customize various settings to suit your shooting preferences. The first part of this chapter explains convenient and commonly used functions. The latter part explains how to change shooting and playback settings to suit your purposes.



Changing Camera Settings

You can customize convenient and commonly used functions in the 🔧 tab (p. 43).

Changing Sounds

You can change each of the camera's operation sounds.



- Choose [Sound Options], then press the (FUNC. SET) button.
- Press the ▲▼ buttons or turn the dial to choose a menu item.
- Press the ◀▶ buttons to choose an option.

1	Preset sounds (cannot be modified)
2	Preset sounds You can use the included software to change the sounds (p. 2).

Even if you change the [Shutter Sound], it will not be reflected in the shutter sound option in HQ (p. 74).

Turning Off Hints & Tips

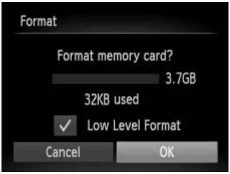
When you choose an item in the FUNC. menu (p. 42) or MENU (p. 43), a description of the function (hints and tips) is displayed. You can turn off this function.



- Choose [Hints & Tips], then press the ◀▶ buttons to choose [Off].

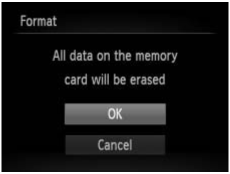
Low Level Memory Card Formatting

Perform low level formatting when [Memory card error] appears, the camera does not operate properly, you think that the recording/reading speed of a memory card has dropped, the continuous shooting speed slows down, or recording suddenly stops while shooting a movie. As you cannot retrieve the erased data, exercise adequate caution before formatting the memory card.



1 Choose [Low Level Format].

- Choose [Format], then press the (FUNC/SET) button.
- Press the ▲▼ buttons or turn the ◎ dial to choose [Low Level Format], then press the ◀▶ buttons to display ✓.
- Press the ▲▼◀▶ buttons or turn the ◎ dial to choose [OK], then press the (FUNC/SET) button.



2 Start the low level format.

- Press the ▲▼ buttons or turn the ◎ dial to choose [OK], then press the (FUNC/SET) button.
- ▶ Low level formatting starts.
- ▶ When low level formatting ends, [Memory card formatting complete] will appear on the screen.

3 Complete the low level format.

- Press the (FUNC/SET) button.

- Low level formatting may take longer than standard formatting (p. 23), since all recorded data is erased.
- You can stop a low level format of a memory card by choosing [Stop]. When stopping low level formatting, the data will be erased but the memory card can be used without problem.

Changing the Start-up Screen

You can change the start-up screen that appears when you turn on the camera.



- Choose [Start-up Image], then press the FUNC./SET button.
- Press the ◀▶ buttons or turn the dial to choose an option.

	No start-up image
1	Preset images (cannot be modified)
2	Preset images You can set recorded images, and use the included software to change the images.

Registering Recorded Images as the Start-up Screen

1 Enter Playback mode.

- Press the ▶ button.



2 Choose [Start-up Image].

- Choose [Start-up Image], then press the FUNC./SET button.
- Press the ◀▶ buttons or turn the dial to choose [2], then press the FUNC./SET button.



3 Choose an image.

- Press the ◀▶ buttons or turn the dial to choose an image, then press the FUNC./SET button.
- Press the ◀▶ buttons or turn the dial to choose [OK], then press the FUNC./SET button to complete registration.

> Any previously registered start-up image will be overwritten when registering a new start-up image.

Register the start-up image or sounds with the included software

The dedicated operation sounds and start-up images on the included software can be registered to the camera. Refer to the *Software Guide* for details.

Changing the File Number Assignment

Images you shoot are automatically assigned file numbers in the order they were taken, from 0001 – 9999, and saved to folders of up to 2,000 images. You can change the file number assignment.



- Choose [File Numbering], then press the ◀▶ buttons to choose an option.

Continuous	Even if you shoot using a new memory card, the file numbers are assigned consecutively until an image with the number 9999 is taken/saved.
Auto Reset	If you replace the memory card with a new one, or a new folder is created, file numbering begins with 0001 again.

- If you use a memory card already containing images, the newly assigned file numbers may continue the existing numbering for both [Continuous] and [Auto Reset]. If you want to start over with file number 0001, format the memory card before use (p. 23).
- Refer to the *Software Guide* for information regarding folder structure or image types.

Creating Folders by Shooting Date

Images are saved into folders created each month, however, you can also create folders by shooting date.



- Choose [Create Folder], then press the ◀▶ buttons to choose [Daily].
- Images will be saved into folders created on each shooting date.

Changing the Lens Retract Time

For safety reasons, the lens retracts about 1 minute after pressing the ▶ button when in a Shooting mode (p. 28). If you want the lens to retract immediately when you press the ▶ button, set the retract time to [0 sec.].



- Choose [Lens Retract], then press the ◀▶ buttons to choose [0 sec.].

Turning Off the Power Saving Function

You can set the power saving function (p. 48) to [Off]. Setting it to [On] is recommended to save battery power.



- Choose [Power Saving], then press the FUNC/SET button.
- Press the ▲▼ buttons or turn the dial to choose [Auto Power Down], then press the ◀▶ buttons to choose [Off].
- If you set the power saving function to [Off], be sure to turn the camera off after use.

Setting the Screen Shut-Off Time

You can adjust the time the screen takes to shut off automatically (p. 48). This also works when [Auto Power Down] is set to [Off].



- Choose [Power Saving], then press the FUNC./SET button.
- Press the ▲▼ buttons or turn the dial to choose [Display Off], then press the ◀▶ buttons to choose a time.
- In order to save battery power, you should choose less than [1 min.].

Using the World Clock

When traveling abroad, you can record images with local dates and times simply by switching the time zone setting. If you pre-register the destination time zones, you can enjoy the convenience of not having to switch the Date/ Time settings.
To use the world clock, be sure to set the date/time (p. 20) and your home time zone beforehand.



1 Set the world time zone.

- Choose [Time Zone], then press the FUNC./SET button.
- Press the ▲▼ buttons or turn the dial to choose [✈ World], then press the FUNC./SET button.
- Press the ◀▶ buttons or turn the dial to choose the world time zone.
- To set daylight saving time (adds 1 hour), press the ▲▼ buttons to choose ☀.
- Press the FUNC./SET button.



2 Choose the world time zone.

- Press the ▲▼ buttons or turn the dial to choose [World], then press the MENU button.
- ▶ will appear on the shooting screen (p. 191).

If you change the date or time in the setting (p. 21), your [Home] time and date will automatically change.

Changing the Displayed Units

You can change the units that display in the MF indicator (p. 93) and zoom bar (p. 25) from m/cm to ft/in.



- Choose [Distance Units], then press the ◀▶ buttons to choose [ft/in].

Changing Shooting Function Settings

If you set the mode dial to **P**, you can change the settings in the 📷 tab (p. 43).

> Before attempting to shoot using a function explained in this section in modes other than **P**, check if the function is available in those modes (pp. 200 – 203).

Switching the Focus Setting

The camera focuses on whatever it is aimed at even when you do not press the shutter button. However, you can set it so that the camera only focuses when the shutter button is pressed halfway.



- Choose [Continuous AF], then press the ◀▶ buttons to choose [Off].

On	Since the camera focuses continuously until you press the shutter button halfway, it allows you to shoot without missing photo opportunities.
Off	The camera does not focus continuously, thereby conserving battery power.

Turning Off the AF Assist Beam

The lamp will automatically light to assist focusing in low light conditions when you press the shutter button halfway. You can turn off the lamp.



- Choose [AF-assist Beam], then press the ◀▶ buttons to choose [Off].

Changing the Flash Timing

You can change the timing of the flash and shutter.



- Choose [Flash Control], then press the (FUNC./SET) button.
- Press the ▲▼ buttons or turn the ◎ dial to choose [Shutter Sync.], then press the ◀▶ buttons to choose a setting.

1st-curtain	The flash fires right after the shutter opens.
2nd-curtain	The flash fires right before the shutter closes.

Turning Off the Red-Eye Reduction Function

The red-eye reduction lamp lights in order to reduce the red-eye effect that occurs when shooting in dark conditions with the flash. You can turn off this function.



- Choose [Flash Control], then press the (FUNC./SET) button.
- Press the ▲▼ buttons or turn the ◎ dial to choose [Red-Eye Lamp], then press the ◀▶ buttons to choose [Off].

Changing the Image Display Time Right After Shooting

You can change the length of time the images display right after shooting.

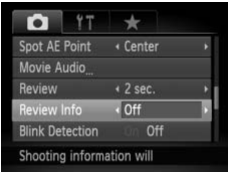


- Choose [Review], then press the ◀▶ buttons to choose an option.

2 – 10 sec.	Displays images for the set time.
Hold	The image displays until you press the shutter button halfway.
Off	Images will not display.

Changing the Way the Image Displays Right After Shooting

You can change the way the image displays right after shooting.



- Choose [Review Info], then press the ◀▶ buttons to choose an option.

Off	Displays the image only.
Detailed	Displays detailed information (p. 194).
Focus Check	The area inside the AF frame is magnified, allowing you to check the focus. The procedure is the same as in “Checking the Focus” (p. 123).

Customizing Display Information

You can change which information is displayed by switching between custom displays with each press of the DISP. button.



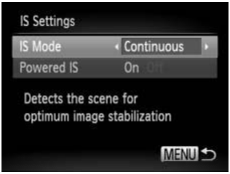
- Choose [Custom Display], then press the FUNC./SET button.
- Press the ▲▼◀▶ buttons or turn the dial to choose 1, 2, 1 or 2, then press the FUNC./SET button, and the DISP. button to change the custom display settings. Custom display items with ⃠ will not display when the DISP. button is pressed. Also, ⃠ cannot be set for the current custom display while making settings.
- Press the ▲▼◀▶ buttons or turn the dial to choose an item, then press the FUNC./SET button. ✓ will appear on items that display.
- ▶ Items with ✓ will display.

Shooting Info	Displays shooting information (p. 191).
Grid Lines	A grid overlays the screen.
Histogram	A histogram (p. 41) appears in Shooting modes P, Tv, Av and M.

If you press the shutter button halfway and return to the shooting screen from the custom display settings screen, the settings will not be saved.

- Gray items can also be set, however, they may not appear depending on the Shooting mode.
- Grid lines will not be recorded on the image.

Changing the IS-Mode Settings



- Choose [IS Settings], then press the FUNC./SET button.
- Press the ▲▼ buttons to choose [IS Mode], then press the ◀▶ buttons to choose an option.

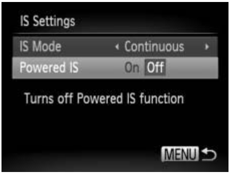
Continuous	Automatically sets the optimal image stabilization for the scene (Intelligent IS) (p. 193).
Shoot Only*	Image stabilization is only active at the moment of shooting.
Off	Turns off image stabilization.

* Setting changes to [Continuous] when shooting movies.

If camera shake is too strong, attach the camera to a tripod. You should also set the IS Mode to [Off] when the camera is attached to a tripod.

Turning Off the Powered IS Function

Powered IS reduces subtle camera shake when shooting movies at max. telephoto. However, when shooting while walking, or during long panning shots, you should set Powered IS to [Off], as it may cause unexpected results in these situations.



- Choose [IS Settings], then press the FUNC./SET button.
- Press the ▲▼ buttons to choose [Powered IS], then press the ◀▶ buttons to choose [Off].

[Powered IS] settings will be disabled if [IS Mode] is set to [Off].

Registering Functions to the Button

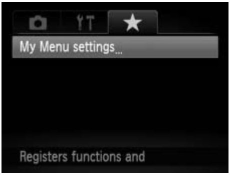


- Choose [Set Shortcut button], then press the button.
- Press the ▲▼◀▶ buttons or turn the dial to choose the functions to register, then press the button.
- Press the button to call up the registered function.

- Choose if you want to return the button to default settings.
- When this symbol is shown on the bottom right of an icon, the function cannot be used in the current Shooting mode or function setting.
- In , each press of the button records white balance data (p. 80), and the white balance settings change to .
- In AFL, each press of the button will adjust and lock the focus, and AFL will appear on the screen.
- If you press the button in , both the screen and viewfinder displays will turn off. Try one of the following to restore the displays:
  - Press any button other than the power button
  - Change the camera's vertical or horizontal orientation
  - Open and close the screen
  - Raise and lower the flash

Registering Commonly Used Shooting Menus (My Menu)

You can register up to 5 items from commonly used shooting menus to the ★ tab, letting you quickly access these items from a single screen.



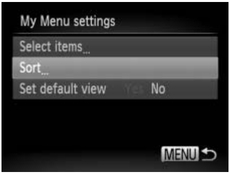
1 Choose [My Menu settings].

- Choose [My Menu settings] in the ★ tab, then press the FUNC./SET button.



2 Choose the menu items to register.

- Press the ▲▼ buttons or turn the dial to choose [Select items], then press the FUNC./SET button.
- Press the ▲▼ buttons or turn the dial to choose a menu to register (up to 5), then press the FUNC./SET button.
- ▶ ✓ will appear.
- To cancel registration, press the FUNC./SET button, and ✓ will disappear.
- Press the MENU button.



3 Change the order in which menu items are displayed.

- Press the ▲▼ buttons or turn the dial to choose [Sort], then press the FUNC./SET button.
- Press the ▲▼ buttons or turn the dial to choose the menu item you want to move, then press the FUNC./SET button.
- Press the ▲▼ buttons or turn the dial to change the order, then press the FUNC./SET button.
- Press the MENU button.

- Gray items in Step 2 can also be set, however, they may not be available depending on the Shooting mode.
- Choose [Set default view] and press the ◀▶ buttons to choose [Yes]. My Menu can now be displayed by pressing the MENU button when in a Shooting mode.

Changing Playback Function Settings

You can adjust the settings in the ▶ tab by pressing the ▶ button (p. 43).

Turning Off the Auto Rotate Function

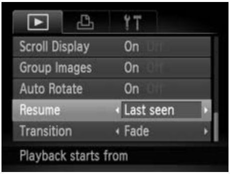
When you play back images on the camera, images shot in vertical orientation automatically rotate and display vertically. You can turn off this function.



- Select [Auto Rotate], then press the ◀▶ buttons to choose [Off].

- Images cannot be rotated (p. 138) if you have set [Auto Rotate] to [Off]. Rotated images will also appear in their original orientation.
- In Smart Shuffle (p. 127), even if [Auto Rotate] is set to [Off], images taken vertically will be displayed vertically, while rotated images will appear in their rotated orientation.

Choosing the Image that First Displays in Playback



- Choose [Resume], then press the ◀▶ buttons to choose an option.

Last seen	Resumes with the image last viewed.
Last shot	Resumes with the most recently shot image.

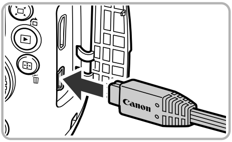
11

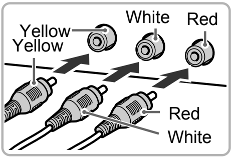
Useful Information

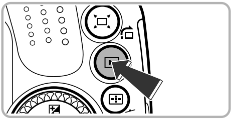
This chapter introduces how to use the accessories and Eye-Fi cards (both sold separately) (p. 212), troubleshooting tips, and contains lists of functions and items that appear on the screen.

Viewing Images on a TV

Using the separately sold Stereo AV Cable AVC-DC400ST (p. 213), you can connect the camera to a TV to view images you have shot.







1 Turn off the camera and TV.

2 Connect the camera to the TV.

- Open the camera's terminal cover and fully insert the cable plug into the camera's terminal.
- Insert the cable plug fully into the video input terminals as shown in the illustration.

3 Turn on the TV and switch it to the input the cable is connected to.

4 Turn on the camera.

- Press the ▶ button to turn on the camera.
- ▶ The image will appear on the TV (nothing will appear on the screen of the camera).
- After you finish, turn off the camera and TV, and unplug the cable.

? What if the images don't display correctly on the TV?

Images will not display correctly if the camera's video output setting (NTSC/PAL) does not match the TV system. Press the MENU button and choose [Video System] in the 🔧 tab to switch to the correct video system.

Shooting Using a TV as the Display

You can use a TV to display the camera screen content while shooting.

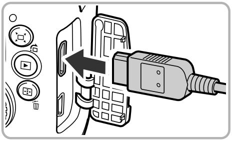
- To connect the camera to a TV, follow the Steps in “Viewing Images on a TV” (p. 174).
- Shooting procedures are the same as when using the camera screen.

TV display is not available when using HDMI Cable HTC-100 (sold separately) to connect the camera to an HD TV.

Using the HDMI Cable (Sold Separately) with an HD TV

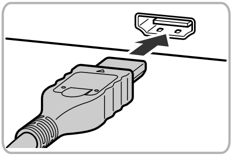
Using the separately sold HDMI Cable HTC-100 (p. 213), you can connect the camera to an HD TV to view images you have shot.

1 Turn off the camera and TV.



2 Connect the camera to the TV.

- Open the camera’s terminal cover and fully insert the cable plug into the camera’s terminal.



- Fully insert the cable plug into the TV’s HDMI input terminal as shown.

3 Display images.

- Follow Steps 3 and 4 on p. 174 to display the images.

The supplied interface cable or the separately sold stereo AV cable (p. 213), and HDMI Cable HTC-100 cannot be plugged into the camera at the same time. Doing so could damage the camera or cables.

Operation sounds will not play when connected to an HD TV.

Using a TV Remote to Control the Camera

When you connect the camera to an HDMI CEC compatible TV, you can use the TV's remote control to operate the camera and play back images or view slideshows. You may need to make settings on some TVs. For details, refer to the user guide supplied with the TV.



1 Choose [Ctrl via HDMI].

- Press the MENU button to choose [Ctrl via HDMI] in the 𝐘𝐓 tab, then press the ◀▶ buttons to choose [Enable].

2 Connect the camera to the TV.

- Follow Steps 1 – 2 on p. 174 to connect the camera to the TV.

3 Display images.

- Turn on the TV and press the camera's ▶ button.
- ▶ The image will appear on the TV (nothing will appear on the screen of the camera).

4 Use the TV's remote control.

- Press the remote control's ◀▶ buttons to choose an image.
- Press the OK/Select button to display the camera control panel. Press the ◀▶ buttons to choose an item, then press the OK/Select button again.

Summary of the Camera Control Panel Displayed on the TV

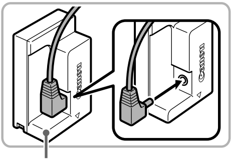
↩	Return	Closes the menu.
⧉	Group playback	Displays groups of High-speed Burst HQ images (only appears when grouped images are chosen).
▶	Play movie	Plays a movie (only appears when a movie is chosen).
⟳	Slideshow	Plays back images automatically. During playback, you can press the remote control's ◀▶ buttons to switch images.
▦	Index playback	Displays images in an index.
DISP.	Change display	Changes the screen display (p. 40).

- If you operate the controls on the camera, you will not be able to control the camera with the TV's remote control until you return to single image playback.
- Some TVs may not be able to control the camera properly even though they are HDMI CEC compatible.

Using Household Power

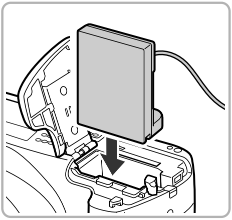
If you use AC Adapter Kit ACK-DC80 (sold separately), you can use the camera without worrying about how much charge is left in the battery.

1 Turn off the camera.


Terminals

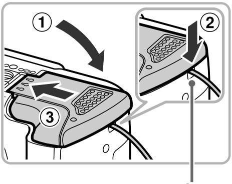
2 Plug the cord into the coupler.

- Fully insert the plug into the coupler.



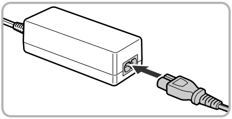
3 Insert the coupler.

- Follow Step 2 on p. 17 to open the cover, then insert the coupler as shown until it locks into place with a click.



Cable

- Close the cover (①) making sure the coupler cable fits into the coupler cable port (②).
- Slide the cover (③) until it clicks into place.



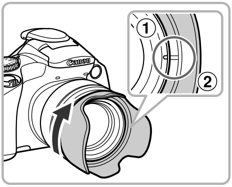
4 Connect the power cord.

- Connect the power cord to the compact power adapter, then plug the other end into a power outlet.
- Turn the camera on to use it.
- After you finish, turn off the camera and unplug the power cord from the power outlet.

Do not unplug the plug or power cord with the camera turned on. This could erase images you have taken or damage the camera.

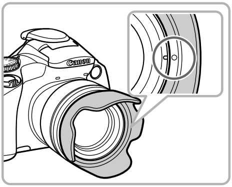
Using the Lens Hood (Sold Separately)

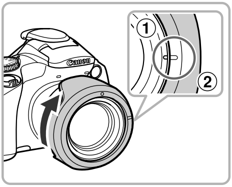
When shooting a backlit, wide-angle photo without using a flash, attach Lens Hood LH-DC60 (sold separately) to reduce the amount of extraneous light entering the lens.



Attach the hood.

- Align the notch (②) on the lens hood with the mark on the camera (①), then turn the lens hood in the direction of the arrow until locked.
- To remove the lens hood, turn it in the opposite direction.





- When not in use, align the notch (②) on the hood with the mark on the camera (①), and turn the hood in the direction of the arrow until locked as shown.

If you use the built-in flash with the hood attached, portions of the image may appear darker.

The lens hood and a filter adapter cannot be attached to the camera at the same time.

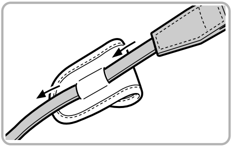
Using an Externally Mounted Flash (Sold Separately)

You can make your flash photography even better with the use of a Speedlite EX series flash (sold separately, p. 212). With Speedlite 320EX (sold separately), you can use the LED light to shoot movies.

- When a Speedlite EX series flash is mounted, you cannot set the built-in flash.
- Using a non-Canon brand flash (particularly a high-voltage flash) or flash accessories may inhibit normal operation or damage the camera.

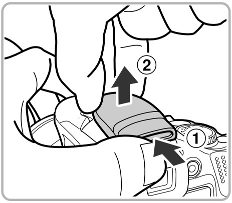
- Please also read the Speedlite EX series manual included with the flash.
- Some functions on Speedlite EX series flashes may not be available when used with this camera.

Using the Hot Shoe Cap



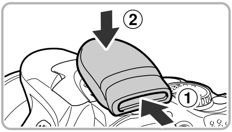
1 Attach the case for the hot shoe cap to the strap.

- Remove the strap from the camera.
- Pass the strap through the back of the case.
- Attach the strap to the camera (p. 13).



2 Remove the hot shoe cap.

- Push (①) and lift (②) the cap to remove it.
- To avoid losing the cap when you remove it, place it in the case you attached to the strap.

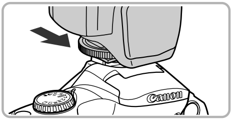


3 Attaching the Hot Shoe Cap

- Attach the hot shoe cap to protect the hot shoe when not using an externally mounted flash.
- Slide (①) and push down (②) to attach the cap.

Speedlite 580EX II/430EX II/320EX/270EX II/270EX

These flashes enable you to shoot scenes brightly and allow for a wider range of flash photography to suit your purposes.



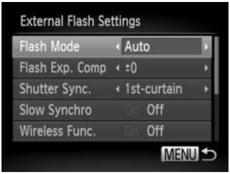
1 Attach the flash to the hot shoe.

2 Turn the flash on, then turn the camera on.

- A red ⚡ appears on the screen (or the viewfinder).
- When the flash is charged, its pilot lamp will light.

3 Set the camera to P, Tv, Av or M mode.

4 Set the white balance to ⚡ (p. 80).



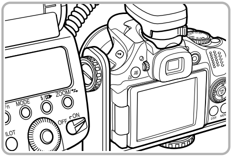
5 Configure the externally mounted flash.

- Press the MENU button to choose [Flash Control] in the 📷 tab, then press the FUNC/SET button.
- The options set on the flash will appear.
- Press the ▲▼ buttons or turn the dial to choose an item, then press the ◀▶ buttons to adjust the setting.
- The available settings differ depending on the shooting mode and attached flash (p. 183).

What if...

- **What if you cannot perform the operations in Steps 4 and 5?**
  Set the camera to P, Tv, Av or M mode.
- **What if you cannot adjust settings for the built-in flash?**
  When a Speedlite EX series flash is mounted, the setting screen for the built-in flash will not appear, and you will not be able to adjust settings.
- **What if you cannot choose [Flash Control]?**
  If you have set the flash to stroboscopic flash (580EX II only), you cannot choose [Flash Control].

Using Speedlite Bracket SB-E2 (Sold Separately)



Using the separately sold Speedlite Bracket SB-E2 prevents unnatural shadows from appearing on the sides of objects when shooting from a vertical position. However, depending on the angle, the bracket may interfere with opening the screen. Use the camera with the screen closed and facing outward.

- You can also display the settings screen if you hold down the ⚡ button for more than 1 second.
- Flash settings can only be changed in P, Tv, Av, M modes. In all other modes, the flash adjusts and fires automatically.

What if the 320EX's LED light does not automatically light?

The LED light will only function in low light conditions when shooting movies, or when setting the camera to movie mode. In these situations, ☼ will appear on the screen.

If the camera is set to 🎥 mode, flash settings can be adjusted the same as when in P mode.

Configuring the Externally Mounted Flash (Sold Separately)

You can set the following options when in P, Tv, Av and M modes. In other modes, only [Red-Eye Corr.] and [Red-Eye Lamp] can be set (the flash adjusts and fires automatically).

Item	Options	Shooting modes			
		P	Tv	Av	M
Flash Mode	Auto*1	○	○	○	–
	Manual*2	○	○	○	○
Flash Exp.Comp*3	–3 to +3	○	○	○	–
Flash Output*4	1/128*5 to 1/1 (in 1/3 steps)	○	○	○	○
Shutter Sync.	1st-curtain/2nd-curtain/Hi-speed	○	○	○	○
Slow Synchro	On	○	○	○	○
	Off	○	–	○	–
Wireless Func.*6	On/Off	○	○	○	○
Red-Eye Corr.	On/Off	○	○	○	○
Red-Eye Lamp	On/Off	○	○	○	○
Safety FE*7	On	○	○	○	–
	Off	○	○	○	○
Clear Flash Settings*8		○	○	○	○

*1 The flash will be set to E-TTL mode.

*2 The flash will be set to M mode.
You can also set the flash to E-TTL mode, when in M mode. In this case, the flash will fire at the flash output set on the camera in combination with the flash exposure compensation amount set on the flash.

*3 Flash exposure compensation can only be set when [Flash Mode] is set to [Auto], and the value on the flash is set to [+0]. If the flash exposure compensation amount is changed on the flash, the screen display will also change.

*4 The flash output can be adjusted if [Flash Mode] is set to [Manual]. The settings will be synchronized on the flash.

*5 1/64 for Speedlite 430EX II, 320EX, 270EX II and 270EX.

*6 Settings aside from On/Off are set on the flash. Cannot be set on Speedlite 430EX II, 320EX, 270EX II or 270EX. Additionally, when set to [On], [Shutter Sync.] cannot be set to [2nd-curtain]. Even if you set [Shutter Sync.] to [2nd-curtain], it will change to [1st-curtain].

*7 Can only be set if [Flash Mode] is set to [Auto].

*8 Resets settings to their default values. [Slow Synchro], [Safety FE], [Red-Eye Corr.] and [Red-Eye Lamp] can also be returned to their default values using [Reset All] in the camera's 𝐘𝐓 menu (p. 47).

If the camera is set to C mode, flash settings can be adjusted the same as when in P mode.

Using an Eye-Fi Card

Before using an Eye-Fi card, be sure to check whether Eye-Fi card use is authorized in the country or territory of use (p. 16).

When you put a prepared Eye-Fi card into the camera, you can automatically transfer your images wirelessly to a computer, or upload them to a web service.
Image transfer is a function of the Eye-Fi card. For details on how to setup and use the card, and concerning problems transferring images, please refer to the Eye-Fi card user guide, or contact the manufacturer.

Please keep the following things in mind when using an Eye-Fi card.

- Even if you set [Eye-Fi trans.] to [Disable] (p. 185), the Eye-Fi card may transmit radio waves. Be sure to remove the Eye-Fi card from the camera before entering areas that prevent unauthorized transmission of radio waves, such as hospitals and airplanes.
- If you have trouble transferring images, check the card or computer settings. For details, refer to the user guide supplied with the card.
- Depending on the connection status of the wireless network, it may take time to transfer images, or image transfer may be interrupted.
- Due to its transfer function, the Eye-Fi card may become hot.
- Battery consumption will be quicker than in normal use.
- Camera operations will be slower than in normal use. This may be resolved by setting [Eye-Fi trans.] to [Disable].

If you put an Eye-Fi card into the camera, the connection status can be checked in the shooting screen (information display) and playback screen (simple information display).

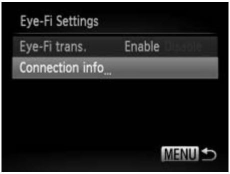
(Gray)	Not connected
(Flashing white)	Connecting
(White)	Connected
(Animated)	Transferring
	Interrupted
	Error retrieving Eye-Fi card info (Turn the camera off and on again. If this continues to appear, there may be a problem with the card.)

will appear on transferred images.

- The power saving function does not work while transferring images (p. 48).
- If mode is chosen, the Eye-Fi connection will be interrupted. Choosing another Shooting mode or entering Playback mode will reopen the Eye-Fi connection, but movies made with mode may be retransferred.

Checking Connection Information

You can check the Eye-Fi card's access point SSID, or connection status.

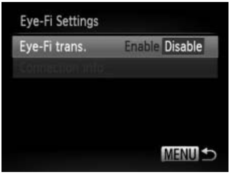


Choose [Connection info].

- Press the MENU button to choose [Eye-Fi Settings] in the 🔧 tab, then press the FUNC./SET button.
- Press the ▲▼ buttons or turn the dial to choose [Connection info], then press the FUNC./SET button.
- ▶ The connection info screen will appear.

Disabling Eye-Fi Transfer

You can set the card to disable Eye-Fi transfer.



Choose [Disable] in [Eye-Fi trans.].

- Press the MENU button to choose [Eye-Fi Settings] in the 🔧 tab, then press the FUNC./SET button.
- Press the ▲▼ buttons or turn the dial to choose [Eye-Fi trans.], then press the ◀▶ buttons to choose [Disable].

? What if [Eye-Fi Settings] does not appear?

[Eye-Fi Settings] will not appear when an Eye-Fi card is not inserted in the camera, and when an Eye-Fi card's write-protect tab is in the locked position. For this reason, settings cannot be changed for Eye-Fi cards equipped with a write-protect tab when the tab is in the locked position.

Troubleshooting

If you think there is a problem with the camera, first check the following. If the items below do not solve your problem, contact a Canon Customer Support Help Desk.

Power

You pressed the power button, but nothing happened.

- Confirm that the battery is the correct type, and is not depleted (p. 15).
- Confirm that the battery is properly inserted (p. 17).
- Confirm that the memory card/battery cover is securely closed (p. 17).
- If the battery terminals are dirty, battery performance will decrease. Clean the terminals with a cotton swab and re-insert the battery several times.

Battery is consumed quickly.

- Battery performance decreases at low temperatures. Warm the battery, for example, by placing it in your pocket with the terminal cover on.

Lens will not retract.

- Do not open the memory card/battery cover while the power is on. After closing the memory card/battery cover, turn the power on then back off (p. 17).

TV output

Image is distorted or not showing on TV (p. 174).

Shooting

Cannot shoot.

- When in Playback mode (p. 22), press the shutter button halfway (p. 24).

The screen is off (p. 26).

Screen does not display properly in dark places (p. 41).

Screen does not display properly while shooting.

Please note, the following will not be recorded in still images, but will be recorded in movies.

- When shooting under fluorescent or LED lighting, the screen may flicker, and a horizontal bar may appear.

A flashing ⚡ appears on the screen and the shot cannot be taken even though the shutter button was pressed fully (p. 27).

appears when the shutter button is pressed halfway (p. 27).

- Set [IS mode] to [Continuous] (p. 168).
- Raise the flash and set it to ⚡ (p. 79).
- Increase the ISO speed (p. 81).
- Attach the camera to a tripod. Additionally, you should set [IS Mode] to [Off] when shooting with a tripod (p. 168).

Image is blurred.

- Press the shutter button halfway to focus on the subject, then press fully to shoot (p. 24).
- Shoot the subject within the focusing distance (p. 207).
- Set the [AF-assist Beam] to [On] (p. 165).
- Confirm that functions which you do not intend to use (macro, etc.) are not set.
- Shoot using the focus lock or AF lock (pp. 86, 91).

Even when you press the shutter button halfway, the AF frame does not appear, and the camera does not focus.

- If you center on the light and dark contrasting area of the subject and push the shutter button halfway, or repeatedly push the shutter button halfway, the AF frame will appear and the camera will focus.

Subject is too dark.

- Raise the flash and set it to ⚡ (p. 79).
- Correct the brightness with exposure compensation (p. 78).
- Adjust the image with i-Contrast (pp. 79, 142).
- Use spot metering or AE Lock to shoot (pp. 95, 96).

Subject is too bright (overexposed).

- Lower the flash and set it to ⊛ (p. 26).
- Correct the brightness with exposure compensation (p. 78).
- Use spot metering or AE Lock to shoot (pp. 95, 96).
- Reduce the light illuminating the subject.

Image is dark even though the flash fired (p. 27).

- Shoot within an appropriate distance for flash photography (p. 79).
- Correct the flash exposure compensation amount or flash output (pp. 98, 105).
- Increase the ISO speed (p. 81).

Image taken using the flash is too bright (overexposed).

- Shoot within an appropriate distance for flash photography (p. 79).
- Lower the flash and set it to ⊛ (p. 26).
- Correct the flash exposure compensation amount or flash output (pp. 98, 105).

White dots appear on the image when shooting with the flash.

- Light from the flash has reflected off dust particles or other objects in the air.

Image appears rough or grainy.

- Shoot with the ISO speed on a lower setting (p. 81).
- Depending on the Shooting mode, when shooting in a high ISO speed the image may appear rough or grainy (p. 63).

Eyes appear red (p. 99).

- Set the [Red-Eye Lamp] to [On] (p. 166). When shooting with the flash, the lamp lights (p. 38). It is more effective if the subject is looking directly at the lamp. Even better results can be obtained by increasing the lighting in indoor settings or approaching closer to the subject.
- Correct images with red-eye correction (p. 143).

Recording images to the memory card takes a long time, or continuous shooting slows down.

- Perform a low-level format of the memory card in the camera (p. 159).

Cannot make settings for shooting functions or FUNC. menu.

- The items in which settings can be made differ depending on the shooting mode. Refer to "Functions Available in Each Shooting Mode" and "Shooting Menu" (pp. 196 – 203).

Shooting movies

Correct shooting time does not display, or stops.

- Format the memory card in the camera, or use a memory card capable of recording at high speeds. Even when the shooting time does not display properly, the recorded video will be the length that it was actually shot (pp. 23, 31).

The full buffer warning (p. 191) appeared on the screen and shooting ended automatically.

The camera's internal memory was insufficient. Try one of the following:

- Perform a low-level format of the memory card in the camera (p. 159).
- Change the image quality setting (p. 113).
- Use a memory card capable of recording at high speeds (p. 113).

Subject appears distorted.

- The subject may appear distorted if it passes quickly in front of the camera while shooting. This is not a malfunction.

Playback

Cannot play back images or movies.

- If the file name or folder structure is changed on a computer, you may not be able to play back images or movies. Refer to the *Software Guide* for information regarding folder structure or file names.

Playback stops, or audio cuts out.

- Use a memory card that has had a low-level format performed on it with this camera (p. 159).
- If you copy a movie to a memory card that reads slowly, playback may interrupt momentarily.
- Depending on its capabilities, when playing movies on a computer, frames may drop or the audio may cut out.

Computer

Cannot transfer images to a computer.

It may be possible to solve the problem when the camera is connected to a computer via cable by reducing the transfer speed.

- After pressing the ▶ button to enter Playback mode, press and hold the MENU button and the ▲ and FUNC./SET buttons together. In the screen that appears, press the ◀▶ buttons to choose [B], then press the FUNC./SET button.

Eye-Fi Card

Cannot transfer images (p. 184).

List of Messages That Appear on the Screen

If error messages appear on the screen, try one of the following solutions.

No memory card

- The memory card is not installed in the correct direction. Install the memory card in the correct direction (p. 17).

Memory card locked

- The SD memory card, SDHC memory card, SDXC memory card or Eye-Fi card's write protect tab is set to "LOCK". Unlock the write protect tab (p. 17).

Cannot record!

- You attempted to shoot an image without a memory card. Insert the memory card in the correct direction to shoot (p. 17).

Memory card error (p. 159)

- If the same message appears even when a formatted memory card is inserted in the correct direction, contact a Canon Customer Support Help Desk (p. 17).

Insufficient space on card

- There is not enough free space on the memory card to shoot (pp. 25, 30, 49, 59, 77, 101, 107) or edit images (pp. 139 – 143). Erase the images (pp. 29, 132) to open space for new images, or insert an empty memory card (p. 17).

Change the battery pack. (p. 17)

No Image.

- There are no images recorded on the memory card that can be displayed.

Protected! (p. 128)

Unidentified Image/Incompatible JPEG/Image too large./Cannot play back AVI/RAW

- Unsupported images, or images with corrupted data cannot be displayed.
- Images manipulated on a computer, that have had their file name changed, or have been taken with a different camera may not display.

Cannot magnify!/Cannot play back this content in Smart Shuffle/Cannot rotate/Cannot modify image/Cannot register this image!/Cannot modify/Cannot assign to category/Unselectable image.

- Incompatible images cannot be magnified (p. 125), played back in Smart Shuffle (p. 127), tagged as favorites (p. 134), rotated (p. 138), edited (pp. 139 – 143), registered to the start-up screen (p. 160), categorized (p. 135), or added to a print list (p. 152).
- Images manipulated on a computer, that have had their file name changed, or have been taken with a different camera may not be magnified, played back in Smart Shuffle, tagged as favorites, rotated, edited, registered to the start-up screen, categorized, or added to a print list.

- Movies cannot be magnified (p. 125), played back in Smart Shuffle (p. 127), edited (pp. 139 – 143), added to a print list (p. 152), or registered to the start-up screen (p. 160).

Invalid selection range

- When choosing the selection range (pp. 130, 133, 137, 155), you tried to choose a starting image that was after the last image or you tried to choose an ending image that was before the starting image.

Exceeded selection limit

- You chose more than 998 images in print settings. Choose 998 or less images (p. 152).
- Print settings could not be saved correctly. Reduce the number of selected images and try again (p. 152).
- You chose 501 or more images in Protect (p. 128), Erase (p. 132), Favorites (p. 134), My Category (p. 135) or Print Settings (p. 152).

Communication error

- Images could not be transferred to the computer or printed due to the large amount of images (approx. 1000) stored on the memory card. Use a commercially available USB card reader to transfer the images. Insert the memory card into the printer's card slot to print.

Naming error!

- The folder or image could not be created because there is an image with the same file name as the folder or image that the camera is attempting to create, or the highest possible file number has already been reached. In the 🔧 menu, change [File Numbering] to [Auto Reset] (p. 161) or format the memory card (p. 23).

Lens Error

- This error can occur if you hold the lens while it is in motion or when using it in a location with excessive dust or sand in the air.
- If this error message continues to appear, contact a Canon Customer Support Help Desk as there may be a problem with the lens.

A camera error was detected (Error number)

- If an error code appears directly after taking a picture, the shot may not have been recorded. Check the image in Playback mode.
- If this error code reappears, note the Error number (Exx) and contact a Canon Customer Support Help Desk as there may be a problem with the camera.

File Error

- Photos from other cameras or images that have been altered using computer software may not be printable.

Print error

- Check the paper size settings. If this message appears when the settings are correct, turn the printer off and back on, then make the settings again.

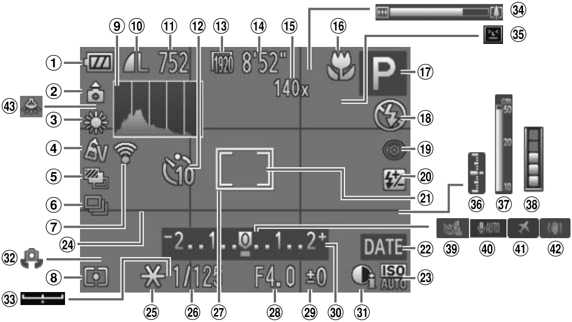
Ink absorber full

- Contact a Canon Customer Support Help Desk for an ink absorber replacement.

Information Displayed on the Screen

Shooting (Information Display)

The same information will display on the viewfinder.



① Battery Charge Indicator (p. 15)
② Camera Orientation*
③ White Balance (p. 80)
④ My Colors (p. 81)
⑤ AEB Shooting (p. 97), Focus Bracketing (p. 92)
⑥ Drive Mode (p. 83)
⑦ Eye-Fi Connection Status (p. 184)
⑧ Metering Method (p. 95)
⑨ Histogram (p. 41)
⑩ Still Image Compression (p. 56), Recording Pixels (p. 56)
⑪ Recordable Shots (p. 57)
⑫ Self-Timer (pp. 53, 54)
⑬ Movie Recording Pixels (p. 113)
⑭ Remaining Time (p. 113)
⑮ Digital Zoom Magnification (p. 50) / Digital Tele-converter (p. 85)
⑯ Focusing Range (pp. 84, 93), AF Lock (p. 91), Image Stabilization (p. 193)
⑰ Shooting Mode (p. 196), Scene Icon (p. 192)
⑱ Flash Mode (pp. 26, 79, 98), LED Light (p. 182)
⑲ Red-Eye Correction (p. 99)
⑳ Flash Exposure Compensation / Flash Output (pp. 98, 105)
㉑ Spot AE Point Frame (p. 95)
㉒ Date Stamp (p. 52)
㉓ ISO Speed (p. 81)
㉔ Grid Lines (p. 168)
㉕ AE Lock (p. 96), FE Lock (p. 96)
㉖ Shutter Speed (pp. 102, 104)
㉗ AF Frame (p. 86)
㉘ Aperture Value (pp. 103, 104)
㉙ Exposure Compensation Amount (p. 78)
㉚ Exposure Compensation Bar (p. 78)
㉛ i-Contrast (p. 79)
㉜ Camera Shake Warning (p. 27)
㉝ Exposure Shift Bar (p. 115)
㉞ Zoom Bar (p. 25)
㉟ Blink Detection (p. 100)
㊱ Exposure Level (p. 104)
㊲ MF Indicator (p. 93)
㊳ Buffer Warning
㊴ Wind Filter (p. 116)
㊵ Movie Audio (p. 115)
㊶ Time Zone (p. 163)
㊷ Image Stabilization (p. 168)
㊸ Mercury Lamp Correction (p. 58)

* : Standard, : Held vertically
When shooting, the camera detects if it is held vertically or horizontally, and adjusts settings accordingly for the best shot. It also detects orientation during playback, so you can hold the camera in either orientation and it will automatically rotate images for correct viewing.
This function may not operate correctly when the camera is pointed straight up or down.

Scene Icons

In AUTO mode, the camera displays an icon for the scene it has determined and then automatically focuses and selects the optimum settings for subject brightness and color.

Subject / Background	People	People: When Moving	People: With Strong Facial Shadows	Non-Human Subjects	Non-Human Subjects: When Moving	Non-Human Subjects: When Close	Icon Background Color
Bright				AUTO			Gray
Bright – Backlit			—				Gray
Including Blue Skies				AUTO			Light Blue
Including Blue Skies – Backlit			—				Light Blue
Sunsets	—					—	Orange
Spotlights							Dark Blue
Dark				AUTO			Dark Blue
Dark – When Using Tripod	*	—		*		—	Dark Blue

* Appears when the scene is dark and the camera is attached to a tripod.

IS Mode Icons

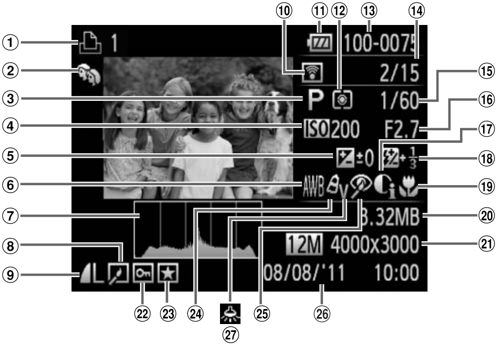
Automatically sets the optimal image stabilization for the scene (Intelligent IS) and displays the following icons when in AUTO mode

	Reduces camera shake when shooting still images.		Reduces camera shake when shooting movies, including strong camera shake that occurs when shooting movies while walking (Dynamic Mode).
	Reduces camera shake when panning while shooting*.		Reduces subtle camera shake when shooting movies at max. telephoto (Powered IS).
	Reduces camera shake for macro photography (Hybrid IS).		Disables image stabilization when the camera is attached to a tripod. However, image stabilization may be applied depending on the shooting conditions.

* Appears on the screen when following the motion of a subject while shooting (panning). While following a subject moving horizontally, only vertical camera shake will be reduced (horizontal image stabilization will be disabled). Additionally, when shooting subjects moving vertically, only horizontal camera shake will be reduced.

If [IS Mode] is set to [Off] (p. 168), image stabilization will be disabled, and icons will not appear on the screen.

Playback (Detailed Information Display)



① Movies (pp. 30, 32) High-speed Burst HQ (p. 74), Print List (p. 152)
② My Category (p. 135)
③ Shooting Mode (p. 196)
④ ISO Speed (p. 81), Playback Speed (p. 110)
⑤ Exposure Compensation Amount (p. 78), Exposure Shift Amount (p. 115)
⑥ White Balance (p. 80)
⑦ Histogram (p. 41)
⑧ Group Playback (p. 125), Image Editing (pp. 139 – 143)
⑨ Compression (Image Quality) (p. 56) / Recording Pixels (pp. 56, 113), MOV (Movies)
⑩ Eye-Fi Transfer Complete (p. 184)
⑪ Battery Charge Indicator (p. 15)
⑫ Metering Method (p. 95)
⑬ Folder Number – File Number (p. 161)
⑭ Displayed Image Number / Total Number of Images
⑮ Shutter Speed (Still Images) (p. 102), Image Quality / Frame Rate (Movies) (p. 113)
⑯ Aperture Value (pp. 103, 104)
⑰ i-Contrast (pp. 79, 142)
⑱ Flash (pp. 79, 98), Flash Exposure Compensation Amount (p. 98)
⑲ Focusing Range (pp. 84, 93)
⑳ File Size (pp. 57, 113)
㉑ Still Images: Recording Pixels (p. 57)
Movies: Movie Length (p. 113)
㉒ Protect (p. 128)
㉓ Favorites (p. 134)
㉔ My Colors (pp. 81, 141)
㉕ Red-Eye Correction (pp. 99, 143)
㉖ Shooting Date and Time (p. 20)
㉗ Mercury Lamp Correction (p. 58)

Some information may not display when viewing images on a TV.

Summary of Movie Control Panel in “Viewing Movies” (p. 32)

↩	Exit
▶	Play
|▶	Slow Motion (You can use the ◀▶ buttons or turn the dial to adjust the speed. Sound will not play back.)
|◀	Skip Backward* (Continues to skip backward if you hold down the FUNC./SET button.)
◀||	Previous Frame (Rewind if you hold down the FUNC./SET button.)
||▶	Next Frame (Fast forward if you hold down the FUNC./SET button.)
▶|	Skip Forward* (Continues to skip forward if you hold down the FUNC./SET button.)
✂	Edit (p. 117)
🖶	Appears when connected to a PictBridge compliant printer (p. 146).

* Displays the frame of approx. 4 sec. before or after the current frame.

You can skip forward and skip backward during movie playback by pressing the ◀▶ buttons.

Functions and Menu Lists

Functions Available in Each Shooting Mode

Function / Shooting Modes		C2	C1	M	Av	Tv	P	AUTO	[Scene icon]
Exposure Compensation (p. 78)		*1	*1	—	○	○	○	—	○
ISO Speed (p. 81)	[ISO AUTO]	*1	*1	—	○	○	○	○	○
	[ISO 100] [ISO 200] [ISO 400] [ISO 800] [ISO 1600] [ISO 3200]	*1	*1	○	○	○	○	—	—
Self-Timer (p. 53)	[Self-timer OFF]	*1	*1	○	○	○	○	○	○
	[10 sec] [2 sec] [Custom]	*1	*1	○	○	○	○	○	—
Self-Timer Settings (p. 54)	Delay*2	*1	*1	○	○	○	○	○	—
	Shots*3	*1	*1	○	○	○	○	○	—
Flash (pp. 26, 79, 98)*4	[Auto Flash]	*1	*1	—	—	—	○	○	—
	[Flash On]	*1	*1	○	○	○	○	—	—
	[Slow Synchro]	*1	*1	—	○	—	○	*5	—
	[Flash Off]	—	—	—	—	—	—	—	○
Av/Tv Settings (pp. 102, 103)	Av	*1	*1	○	○	—	—	—	—
	Tv	*1	*1	○	—	○	—	—	—
AE Lock/FE Lock (p. 96)*7		○	○	—	○	○	○	—	—
AE Lock (Movie)/Exposure Shift (p. 115)*8		○	○	○	○	○	○	—	○
AF Lock (when registered to the [S] button) (p. 170)		○	○	○	○	○	○	—	—
Focusing Range (p. 84)	[Normal]	*1	*1	○	○	○	○	○	○
	[Macro]	*1	*1	○	○	○	○	—	—
	[MF] (p. 93)/ AF Lock (p. 91)	*1	*1	○	○	○	○	—	—
Change AF Frame Position (p. 88)		*1	*1	○	○	○	○	—	—
Change AF Frame Size (p. 88)		*1	*1	○	○	○	○	—	—
Face Select (p. 94)		○	○	○	○	○	○	○	—
Tracking AF (pp. 28, 87)		○	○	○	○	○	○	○	○
Program Shift (p. 96)		○	○	—	○	○	○	—	—

*1 The available settings depend on the registered shooting modes.
*2 Cannot be set to 0 seconds in modes where the number of shots cannot be set.
*3 Fixed to 1 shot in modes where the number of shots cannot be set.
*4 Fixed to [Flash Off] when the flash is lowered, but selectable when the flash is raised.
*5 Cannot be set, but switches to [Slow Synchro] depending on the circumstances.
*6 Cannot be set, but switches to [Slow Synchro] when the flash fires.
*7 FE Lock not available when set to [Flash Off].
*8 Except for [Movie] and [Movie Digest], AE lock and exposure shift are available only when shooting movies.

SCN																							
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	—	—	—	—	—
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
O	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
O	O	O	—	—	—	—	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
O	O	O	—	—	—	—	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
—	O	O	—	—	—	—	O	O	O	O	O	O	—	O	O	O	O	O	O	O	—	—	—
O	O	O	O	O	O	—	—	O	O	O	O	—	—	O	O	O	O	O	O	O	—	—	—
O	O	O	O	O	O	—	—	—	O	O	O	—	O	O	O	O	O	O	O	O	—	—	—
O	—	*6	—	—	—	—	—	—	—	—	—	—	O	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	O	O	—	—	—	—	O	—	—	—	—	—	—	—	—	O	O	O
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
O	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	O	O	O
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	—	O	O	—
O	O	O	—	—	—	O	O	O	O	O	O	—	O	O	O	O	O	O	O	O	O	O	O
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
O	O	O	—	—	—	O	O	O	O	O	O	—	O	O	O	O	O	O	O	O	O	O	O
O	O	O	—	—	—	O	O	O	O	O	O	—	—	O	O	O	O	O	O	O	O	O	O
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
O	O	O	—	—	—	O	—	O	O	O	O	—	—	—	—	O	O	O	O	O	O	O	O
O	O	O	O	O	O	O	—	O	O	O	O	—	—	—	—	O	O	O	O	O	O	O	O
—	O	O	—	—	—	O	—	O	O	O	O	—	—	—	—	—	O	O	O	O	—	—	—
O	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

O Selectable, or set automatically. – Not selectable.

FUNC. Menu

Function		C2	C1	M	Av	Tv	P	AUTO	Scene
White Balance (p. 80)	AWB	*1	*1	○	○	○	○	○	○
	*2	*1	*1	○	○	○	○	—	—
		*1	*1	○	○	○	○	—	—
My Colors (p. 81)	OFF	*1	*1	○	○	○	○	○	○
	V N Se *3 BW *3 P L D B G R C *4	*1	*1	○	○	○	○	—	—
Bracketing (pp. 92, 97)	OFF	*1	*1	○	○	○	○	○	○
		*1	*1	—	○	○	○	—	—
		*1	*1	○	○	○	○	—	—
Drive Mode (p. 83)		*1	*1	○	○	○	○	○	○
		*1	*1	○	○	○	○	—	—
	AF *5	*1	*1	○	○	○	○	—	○
Flash Exposure Compensation (p. 98)		*1	*1	—	○	○	○	—	—
Flash Output Settings (p. 105)		*1	*1	○	○	○	—	—	—
Metering Method (p. 95)		*1	*1	○	○	○	○	○	○
		*1	*1	○	○	○	○	—	—
Still Image Aspect Ratio (p. 55)	16:9 3:2 4:3 1:1	*1	*1	○	○	○	○	○	○
Recording Pixels (p. 56)	L	*1	*1	○	○	○	○	○	○
	M1 M2	*1	*1	○	○	○	○	○	○
	M	—	—	—	—	—	—	—	—
	S	*1	*1	○	○	○	○	○	○
Compression Ratio (p. 56)		*1	*1	○	○	○	○	○	○
Movie Quality (p. 113)	1920 24	*1	*1	○	○	○	○	○	○
	1280 30	*1	*1	○	○	○	○	○	○
	640 30	*1	*1	○	○	○	○	○	○
	640 120	—	—	—	—	—	—	—	—
	320 240	—	—	—	—	—	—	—	—

*1 The available settings depend on the registered shooting modes.
*2 Not available in and .
*3 White balance is not selectable.
*4 Contrast, sharpness, color saturation, red, green, blue, and skin tone can be set in 5 levels.
*5 is set when in MF, AF Lock, or .
*6 Only 4:3 and 16:9 are available.
*7 Synchronizes with the aspect ratio setting and is automatically set (p. 111).

SCN														◎							Movie		
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
O	—	—	O	O	O	—	—	O	—	—	—	—	O	—	—	—	—	—	—	—	O	O	—
O	—	—	O	O	O	—	—	O	—	—	—	—	O	—	—	—	—	—	—	—	—	—	—
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
O	—	—	O	O	O	—	—	—	—	—	—	—	O	—	—	—	—	—	—	—	O	O	—
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
O	O	O	O	O	O	—	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
—	O	O	—	—	—	O	—	O	O	O	O	O	—	O	O	O	O	O	O	O	—	—	—
—	O	O	—	—	—	—	—	O	O	O	O	O	—	O	O	O	O	O	O	O	—	—	—
O	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	—	O	O	O	O	O	O	O	O
O	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	O	O	O	O	O	—	—	—	O	O	O	O	—	—	*6	—	O	O	O	O	—	—	—
O	O	O	O	O	O	O	O	—	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
O	O	O	O	O	O	—	—	—	O	O	O	O	O	—	—	—	—	—	—	—	O	O	O
—	—	—	—	—	—	—	—	O	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
O	O	O	O	O	O	—	—	—	O	O	O	O	O	—	—	—	—	—	—	—	O	O	O
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	—	O	O	O	O	O	O	—	—
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	*7	O	O	O	O	O	O	O	—
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	*7	O	O	O	O	O	O	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	O
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	O

O Selectable, or set automatically. – Not selectable.

Shooting Menu

Function			C2	C1	M	Av	Tv	P	AUTO	
AF Frame (p. 86)	Face Detect*1		*2	*2	○	○	○	○	○	—
	Tracking AF		*2	*2	○	○	○	○	*3	○
	FlexiZone/Center*4		*2	*2	○	○	○	○	—	○
Digital Zoom (pp. 50, 85)	Standard		*2	*2	○	○	○	○	○	○
	Off		*2	*2	○	○	○	○	○	○
	Digital Tele-converter (1.5x/2.0x)		*2	*2	○	○	○	○	—	—
AF-Point Zoom (p. 90)	On		*2	*2	○	○	○	○	○	—
	Off		*2	*2	○	○	○	○	○	○
Servo AF (p. 91)	On		*2	*2	○	○	○	○	—	○
	Off*5		*2	*2	○	○	○	○	○	—
Continuous AF (p. 165)	On		*2	*2	○	○	○	○	○	○
	Off		*2	*2	○	○	○	○	—	—
AF-assist Beam (p. 165)	On		*2	*2	○	○	○	○	○	—
	Off		*2	*2	○	○	○	○	○	○
MF-Point Zoom (p. 93)	On		*2	*2	○	○	○	○	—	—
	Off		*2	*2	○	○	○	○	○	○
Safety MF (p. 93)	On		*2	*2	○	○	○	○	—	—
	Off		*2	*2	○	○	○	○	○	○
Flash Control (pp. 98, 99, 105, 166)	Flash Mode	Auto	*2	*2	—	○	○	○	○	—
		Manual	*2	*2	○	○	○	—	—	—
	Flash Exp. Comp		*2	*2	—	○	○	○	—	—
	Flash Output		*2	*2	○	○	○	—	—	—
	Shutter Sync.		*2	*2	○	○	○	○	—	—
	Red-Eye Corr.	On	*2	*2	○	○	○	○	○	—
		Off	*2	*2	○	○	○	○	○	—
	Red-Eye Lamp	On/Off	*2	*2	○	○	○	○	○	—
	Safety FE	On	*2	*2	—	○	○	○	○	—
		Off	*2	*2	○	○	○	○	—	—
i-Contrast (p. 79)	Auto		*2	*2	○	○	○	○	○	—
	Off		*2	*2	○	○	○	○	—	○
Hg Lamp Corr. (p. 58)	On/Off		—	—	—	—	—	—	○	—

*1 Operation differs depending on the shooting mode when faces are not detected.
*2 The available settings depend on the registered shooting modes.
*3 Only available by pressing the ▲ button (p. 28).
*4 [FlexiZone] in P, Tv, Av and M modes, and [Center] in all other modes.
*5 [On] when moving people are detected in AUTO mode.

SCN																					Movie		
○	○	○	○	○	○	○	○	○	○	○	○	–	–	–	–	○	○	○	○	○	○	○	○
–	○	○	–	–	–	○	–	○	○	○	○	–	–	–	–	–	○	○	○	○	–	–	–
○	○	○	–	–	–	○	–	○	○	○	○	○	○	○	–	○	○	○	○	○	○	○	○
○	○	○	○	○	○	–	–	–	○	○	○	○	–	–	–	–	–	–	–	–	○	○	–
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	○	○	○	○	○	○	–	○	○	○	○	–	–	–	–	–	○	○	○	○	–	–	–
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
–	○	○	–	–	–	–	–	○	○	○	○	–	–	–	–	–	○	○	○	○	–	–	–
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	–	○	○	○	–	○	○	○	○	○	○	○	○	○	○	○
–	○	○	–	–	–	–	○	○	○	○	○	○	○	○	○	○	○	○	○	○	–	–	–
○	○	○	○	○	○	○	○	○	○	○	○	–	○	○	○	○	○	○	○	○	○	○	○
○	○	○	–	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
–	○	○	–	–	–	○	–	○	○	○	○	–	–	–	–	–	○	○	○	○	–	–	–
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
○	○	○	–	–	–	○	○	○	○	○	○	–	–	○	○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	–	–	○	○	○	○	–	○	○	○	○	○	○	○	○	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
○	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
○	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
○	○	○	○	○	○	–	–	○	○	○	○	–	–	–	–	–	–	–	–	–	–	–	–
○	○	○	○	○	○	–	–	○	○	○	○	–	○	○	○	○	○	○	○	○	–	–	–
○	○	○	○	○	○	–	–	○	○	○	○	–	○	○	○	○	○	○	○	○	–	–	–
○	○	○	○	○	○	–	–	○	○	○	○	–	○	○	○	○	○	○	○	○	–	–	–
○	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
○	–	–	–	–	–	–	–	○	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
○	○	○	○	○	○	○	○	–	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

○ Selectable, or set automatically. – Not selectable.

Function			C2	C1	M	Av	Tv	P	AUTO	
Spot AE Point (p. 95)	Center		*1	*1	○	○	○	○	—	—
	AF Point		*1	*1	○	○	○	○	—	—
Safety Shift (p. 103)	On		*1	*1	—	○	○	—	—	—
	Off		*1	*1	○	○	○	○	○	○
Movie Audio (pp. 115, 116)	Mic Level/Level/Wind Filter		*1	*1	○	○	○	○	○	○
Review (p. 166)	Off / 2 - 10 sec. / Hold		*1	*1	○	○	○	○	○	○
Review Info (p. 167)	Off		*1	*1	○	○	○	○	○	○
	Detailed/Focus Check		*1	*1	○	○	○	○	○	○
Blink Detection (p. 100)	On		*1	*1	○	○	○	○	○	—
	Off		*1	*1	○	○	○	○	○	○
Custom Display (p. 167)	Shooting Info/Grid Lines/ Histogram		*1	*1	○	○	○	○	○	○
Reverse Disp. (p. 19)	On		*1	*1	○	○	○	○	○	○
	Off		*1	*1	○	○	○	○	○	○
IS Settings (pp. 168, 169)	IS Mode	Off	*1	*1	○	○	○	○	○	○
		Continuous	*1	*1	○	○	○	○	○	○
		Shoot Only	*1	*1	○	○	○	○	—	○
	Powered IS	On	*1	*1	○	○	○	○	○	○
		Off	*1	*1	○	○	○	○	○	○
Display Area (p. 51)	Large/Medium/Small		*1	*1	○	○	○	○	○	○
Date Stamp (p. 52)	Off		*1	*1	○	○	○	○	○	○
	Date/Date & Time		*1	*1	○	○	○	○	○	○
Set Shortcut button (p. 170)			*1	*1	○	○	○	○	○	○
Save Settings (p. 106)			○	○	○	○	○	○	—	—

*1 The available settings depend on the registered shooting modes.

SCN																							
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○ Selectable, or set automatically. – Not selectable.

Set up Menu

Item	Content	Ref. Page
Mute	On/Off*	p. 44
Volume	Set all operation sounds (5 levels).	p. 44
Sound Options	Set the sounds for each camera operation.	p. 158
Hints & Tips	On*/Off	p. 158
LCD Brightness	Sets screen brightness (5 levels).	p. 45
Start-up Image	Add an image as a start-up image.	p. 160
Format	Formats memory card, erasing all data	pp. 23, 159
File Numbering	Continuous*/Auto Reset	p. 161
Create Folder	Monthly*/Daily	p. 162
Lens Retract	1 min.*/0 sec.	p. 162
Power Saving	Auto Power Down: On*/Off Display Off: 10, 20 or 30 sec./1*, 2 or 3 min.	pp. 48, 162, 163
Time Zone	Home*/World	p. 163
Date/Time	Date and time settings.	p. 21
Distance Units	m/cm*/ft/in	p. 164
Video System	NTSC/PAL	p. 174
Ctrl via HDMI	Enable/Disable*	p. 176
Eye-Fi Settings	Eye-Fi connection settings (only appears when Eye-Fi card is inserted)	p. 184
Language	Choose display language.	p. 22
Reset All	Returns camera to default settings.	p. 47

* Default setting

★ My Menu Menu

Item	Content	Ref. Page
My Menu settings	Sets the items registered to My Menu.	p. 171

▶ Playback Menu

Item	Content	Ref. Page
Movie Digest Playback	Plays back movies made in Movie Digest mode.	p. 121
Smart Shuffle	Starts Smart Shuffle.	p. 127
Slideshow	Plays back images automatically.	p. 124
Erase	Erases images (Select, Select Range, All Images).	p. 132
Protect	Protects images (Select, Select Range, All Images).	p. 128
Rotate	Rotates images.	p. 138
Favorites	Tags or untags images as favorites.	p. 134
My Category	Categorizes images (Select, Select Range).	p. 135
i-Contrast	Corrects dark portions and contrast in still images.	p. 142
Red-Eye Correction	Corrects red eyes in still images.	p. 143
Trimming	Trims portions of still images.	p. 140
Resize	Resizes and saves still images.	p. 139
My Colors	Adjusts colors in still images.	p. 141
Scroll Display	On*/Off	p. 120
Group Images	On*/Off	p. 126
Auto Rotate	On*/Off	p. 172
Resume	Last seen*/Last shot	p. 172
Transition	Fade*/Scroll/Slide/Off	p. 128

* Default setting

Print Menu

Item	Content	Ref. Page
Print	Displays printing screen (When connected to a printer).	—
Select Images & Qty.	Chooses individual images for printing.	p. 154
Select Range	Chooses starting and ending images for printing.	p. 155
Select All Images	Chooses all images for printing.	p. 155
Clear All Selections	Cancels all settings for printing.	p. 155
Print Settings	Sets the printing style.	p. 153

Handling Precautions

- This camera is a high-precision electronic device. Do not drop it or subject it to strong impacts.
- Never place the camera close to magnets, motors or other devices that generate strong electromagnetic fields. Exposure to strong magnetic fields may cause malfunctions or corrupt image data.
- If water droplets or dirt become stuck on the camera or screen, wipe with a dry soft cloth or eyeglass wiper. Do not rub or apply force.
- Never use cleaners containing organic solvents to wipe the camera or screen.
- Use a commercially available blower brush to remove dust from the lens. For stubborn dirt contact a Canon Customer Support Help Desk.
- When you move the camera rapidly from cold to hot temperatures, condensation may form on the internal or external surfaces of the camera. To avoid condensation, put the camera in an airtight, resealable plastic bag and let it adjust to temperature changes slowly before removing it from the bag.
- If condensation has formed on the camera, stop using it immediately, as continued use may damage the camera. Remove the battery and memory card, and wait until the moisture has completely evaporated before resuming use.

Specifications

Image Sensor
  Camera Effective Pixels .... Approx. 12.1 million pixels

Lens
  Focal Length .... 4.3 (W) – 150.5 (T) mm
  (35mm film equivalent : 24 (W) – 840 (T) mm)
  Zoom Magnification 35x
  Focusing Range .... 0 cm (0 in.) – infinity (W), 1.4 m (4.6 ft.) – infinity (T)
  • Macro 0 – 50 cm (W) (0 in. – 1.6 ft. (W))

Image Stabilizer (IS) System .... Lens-shift type

Imaging Processor .... DIGIC 5

Electronic Viewfinder .... Effective dots: Approx. 202,000 (67,000 x 3)
  • Dioptric adjustment and 5 levels of brightness adjustment

LCD Monitor
  Type .... TFT color (wide viewing angle type)
  Size .... 2.7 type
  Effective Pixels .... Approx. 230,000 dots
  Aspect Ratio 4:3
  Features .... Brightness adjustment (5 levels), Quick-bright LCD
  Variangle type (Movement: approx. 175 degrees horizontal, approx. 270 degrees rotational)

Focus
  Control System .... Autofocus: Single (Continuous in Auto mode), Servo AF/Servo AE
  Manual Focus
  AF Frame .... Face Detect, Tracking AF, Center, FlexiZone

Metering System .... Evaluative, Center-weighted average, Spot

Exposure Compensation
(Still Images) /
Exposure Shift (Movies) .... ±2 stops in 1/3-stop increments

ISO Speed (Standard Output Sensitivity, Recommended Exposure Index)
 .... Auto, ISO 100/200/400/800/1600/3200

White Balance .... Auto, Day Light, Cloudy, Tungsten, Fluorescent, Fluorescent H, Flash, Custom

Shutter Speed .... 1 – 1/3200 sec.
  15 – 1/3200 sec. (Total shutter speed range)

Aperture
  Type .... Iris
  f/number .... f/2.7 – f/8.0 (W), f/5.8 – f/8.0 (T)

Flash	
Modes	Auto, on, Slow Synchro, off
Hot Shoe	Available
Range	50 cm – 7.0 m (W), 1.4 – 3.0 m (T) (1.6 – 23 ft. (W), 4.6 – 9.8 ft. (T))
Shooting Modes	C2, C1, M, Av, Tv, P, Auto*1, Sports, SCN*2, Creative Filters*3, Movie*4 • Shooting movies is possible with the movie button *1 Smart Auto also available for movies *2 Movie Digest, Portrait, Landscape, Smart Shutter*5, High-speed Burst HQ, Handheld Night Scene, Low Light, Beach, Foliage, Snow, Fireworks, Stitch Assist *3 Fish-eye Effect, Miniature Effect, Toy Camera Effect, Monochrome, Super Vivid, Poster Effect, Color Accent, Color Swap *4 Standard, iFrame Movie, Super Slow Motion Movie *5 Smile, Wink Self-timer, Face Self-timer
Digital Zoom	Still images/Movies: Approx. 4x (up to approx. 140x in combination with the optical zoom) Safety Zoom, Digital tele-converter
Continuous Shooting	
Mode Selection	Continuous shooting, continuous shooting AF
Speed	Approx. 2.4 shots/sec. (In P mode) Approx. 10.3 shots/sec. (In High-speed Burst HQ mode)
Number of Shots (CIPA compliant)	Approx. 400 shots (Viewfinder) Approx. 380 shots (LCD monitor)
Recording Media	SD memory card, SDHC memory card, SDXC memory card
File Format	Design rule for Camera File system, DPOF (Version 1.1) compliant
Data Type	
Still Images	Exif 2.3 (JPEG)
Movies	MOV (Image data: H.264; Audio data: Linear PCM (stereo))

Recording Pixels	
Still Images	[16:9] Large: 4000 x 2248, Medium 1: 2816 x 1584, Medium 2: 1920 x 1080, Small: 640 x 360 [3:2] Large: 4000 x 2664, Medium 1: 2816 x 1880, Medium 2: 1600 x 1064, Small: 640 x 424 [4:3] Large: 4000 x 3000, Medium 1: 2816 x 2112, Medium 2: 1600 x 1200, Small: 640 x 480 [1:1] Large: 2992 x 2992, Medium 1: 2112 x 2112, Medium 2: 1200 x 1200, Small: 480 x 480
Movies	[Super Slow Motion Movie] 640 x 480 (120 fps when shooting, 30 fps*1 during playback), 320 x 240 (240 fps when shooting, 30 fps*1 during playback) [Miniature Effect] 1280 x 720*2 / 640 x 480*2 [iFrame Movie] 1280 x 720 (30 fps*1) [Other than the above] 1920 x 1080 (24 fps*3) / 1280 x 720 (30 fps*1) / 640 x 480 (30 fps*1) *1 Actual frame rate is 29.97 fps. *2 Shooting: 6 fps, 3 fps, 1.5 fps Playback: 30 fps*1 *3 Actual frame rate is 23.976 fps.
Interface	Hi-Speed USB HDMI output Analog audio output (stereo) Digital video output (NTSC/PAL)
Direct Print Standard	PictBridge
Power Source	Battery Pack NB-10L Compact Power Adapter CA-PS700 (when used with AC Adapter Kit ACK-DC80)
Dimensions (CIPA compliant)	122.9 x 92.4 x 107.7 mm (4.84 x 3.64 x 4.24 in.)
Weight (CIPA compliant)	Approx. 600 g (Approx. 21.2 oz.) (Including the battery and memory card) Approx. 557 g (Approx. 19.6 oz.) (camera body only)

Battery Pack NB-10L

Type	Rechargeable lithium-ion battery
Nominal Voltage	7.4 V DC
Nominal Capacity	920 mAh
Charge Cycles	Approx. 300 times
Operating Temperatures	0 – 40 °C (32 – 104 °F)
Dimensions	32.5 x 45.4 x 15.1 mm (1.28 x 1.79 x 0.59 in.)
Weight	Approx. 41 g (Approx. 1.4 oz.)

Battery Charger CB-2LC/CB-2LCE

Rated Input	100 V – 240 V AC (50/60 Hz) 16 VA (100 V) – 22 VA (240 V) 0.18 VA (100 V) – 0.12 VA (240 V)
Rated Output	8.4 V DC, 0.7 A
Charge Time	Approx. 1 hour 50 min. (When using NB-10L)
Charge Indicator	Charging: orange, Fully charged: green (2 indicator system)
Operating Temperatures	0 – 40 °C (32 – 104 °F)
Dimensions	93.8 x 63.0 x 27.0 mm (3.65 x 2.48 x 1.06 in.)
Weight	Approx. 80 g (Approx. 2.82 oz.) (CB-2LC) Approx. 74 g (Approx. 2.61 oz.) (CB-2LCE, excluding power cord)

Lens Hood LH-DC60 (Sold Separately)

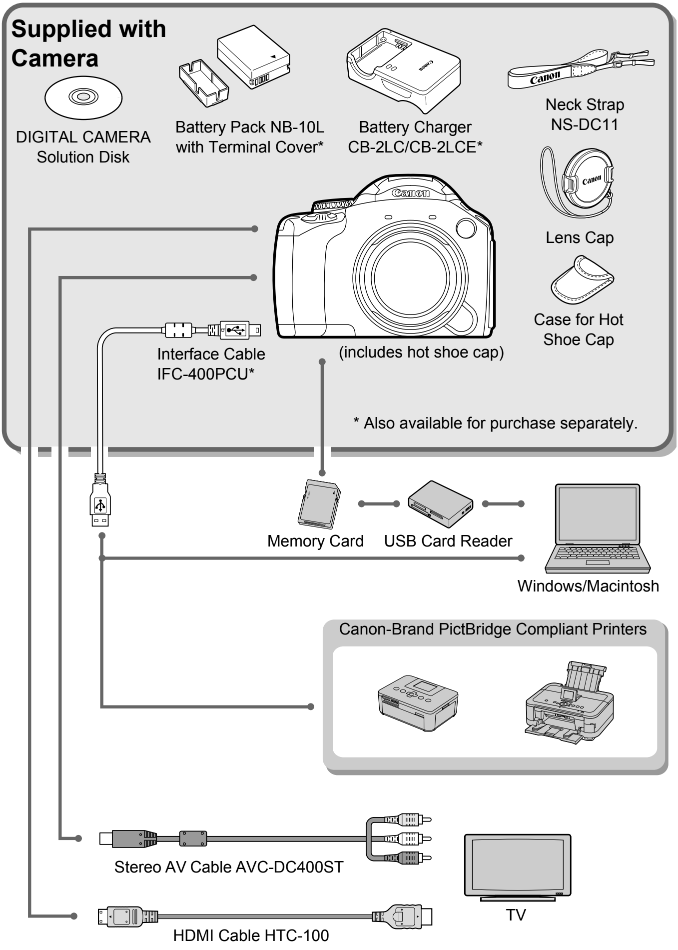
Camera Mount	Bayonet type
Max. Diameter x Length	ϕ69.6 x 27.0 mm (ϕ2.74 x 1.06 in.)
Weight	Approx. 10 g (Approx. 0.35 oz.)

- All data is based on tests by Canon.
- Camera specifications or appearance are subject to change without notice.

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING TO LOCAL REGULATION.

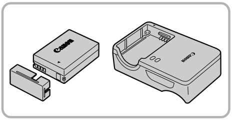
Accessories



Separately Sold Accessories

The following camera accessories are sold separately. Some accessories are not sold in some regions, or may no longer be available.

Power Supplies

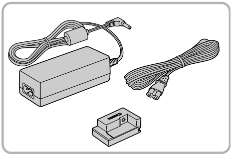


Battery Pack NB-10L

- Rechargeable lithium-ion battery.

Battery Charger CB-2LC/CB-2LCE

- A charger for charging Battery Pack NB-10L.



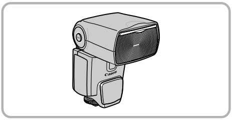
AC Adapter Kit ACK-DC80

- This kit lets you power the camera using household power. Recommended for powering the camera for an extended period of time or when connecting to a computer or printer. Cannot be used to charge the camera battery.

Using accessories abroad

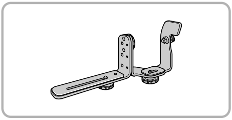
The battery charger and the AC adapter kit can be used in regions that have 100 – 240 V (50/60 Hz) AC power.
If the plug does not fit the outlet, use a commercially available plug adapter. Do not use electrical transformers for foreign travel as they will cause damage.

Flash



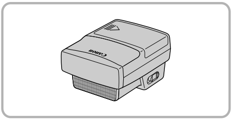
Speedlite 580EX/430EX II/320EX/270EX II/270EX

- A shoe-mounted flash that allows for a wide range of flash photography.



Speedlite Bracket SB-E2

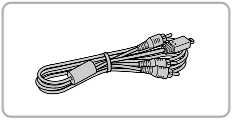
- Prevents unnatural shadows from appearing on the sides of subjects when shooting from a vertical position. The Off-Camera Shoe Cord OC-E3 is supplied with this bracket.



Speedlite Transmitter ST-E2

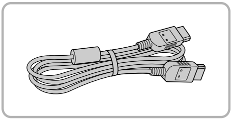
- This allows the wireless control of slave (remote) Speedlite flashes (except the Speedlite 220EX and 270EX).

Other Accessories



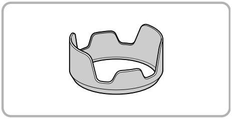
Stereo AV Cable AVC-DC400ST

- Use this cable to connect to a TV for shooting and viewing images.



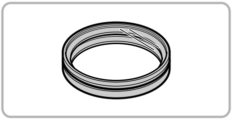
HDMI Cable HTC-100

- Use this cable to connect the camera to the HDMI terminal on a high-definition TV set.



Lens Hood LH-DC60

- Prevents extraneous light from entering the lens and causing flares or ghosting, which reduce image quality.



Filter Adapter FA-DC67A

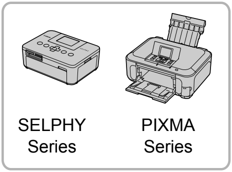
- This adapter is required for attaching a 67 mm filter.

Canon-brand Lens Filter (67 mm dia.)

- Protects the lens and allows you to shoot with various effects.

A lens filter and the lens cap cannot be attached to the camera at the same time.

Printers



Canon-Brand PictBridge Compliant Printers

- By connecting your camera to a Canon-brand PictBridge compliant printer, you can print your images without having to use a computer.
  For more information, visit your nearest Canon retailer.

Use of genuine Canon accessories is recommended.

This product is designed to achieve excellent performance when used with genuine Canon accessories. Canon shall not be liable for any damage to this product and/or accidents such as fire, etc., caused by the malfunction of non-genuine Canon accessories (e.g., a leakage and/or explosion of a battery pack). Please note that this warranty does not apply to repairs arising out of the malfunction of non-genuine Canon accessories, although you may request such repairs on a chargeable basis.

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FCC Notice

(Digital Camera, Model PC1680 systems)
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions;
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for Class B digital devices, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The cable with the ferrite core provided with the digital camera must be used with this equipment in order to comply with Class B limits in Subpart B of Part 15 of the FCC rules.

Do not make any changes or modifications to the equipment unless otherwise specified in the manual. If such changes or modifications should be made, you could be required to stop operation of the equipment.

Canon U.S.A., Inc.

One Canon Plaza, Lake Success, NY 11042, U.S.A.

Tel No. (516) 328-5600

Canadian Radio Interference Regulations

This Class B digital apparatus complies with Canadian ICES-003.

To ensure proper operation of this product, use of genuine Canon accessories is recommended.

RECYCLE RBRC Li-ion 1.800.822.8837

USA and Canada only:
The Lithium ion/polymer battery that powers the product is recyclable.
Please call 1-800-8-BATTERY for information on how to recycle this battery.

For CA, USA only
Included lithium battery contains Perchlorate Material - special handling may apply.
See www.dtsc.ca.gov/hazardouswaste/perchlorate/ for details.

Battery Charger CB-2LC

IMPORTANT SAFETY INSTRUCTIONS-SAVE THESE INSTRUCTIONS.
DANGER-TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS.

For connection to a supply not in the U.S.A., use an attachment plug adapter of the proper configuration for the power outlet, if needed.

Battery Charger CB-2LCE

The adapter can be used with a power supply between 100 and 240 V AC.
Contact your Canon dealer for information about plug adapter for overseas use.
For U.S.A. customers only: For areas where 120 V AC power is not used, you will need a special plug adapter.
For only United States
Use a UL listed, 1.8-3m(6-10ft), Type SPT-2 or NTSPT-2, AWG no.18 power supply cord, rated for 125V 7A, with a non-polarized NEMA 1-15P plug rated for 125V 15A.

Trademark Acknowledgments

- The SDXC logo is a trademark of SD-3C, LLC.
- This device incorporates exFAT technology licensed from Microsoft.
- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
- The iFrame logo and the iFrame symbol are trademarks of Apple INC.

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